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1956/57

LA SIERRA COLLEGE BULLETIN

CATALOG NUMBER
1956-1957

CORRESPONDENCE INFORMATION

The post office of La Sierra College is

Arlington, California

Correspondence concerning the general interests of the college and faculty appointments should be addressed to the president.

Other inquiries should be addressed as indicated below:

Catalogs and Bulletins	Admissions Office
Application for Admission	Admissions Office
Payment of Bills	Business Office
Evaluation of Credits	Registrar
Transcript of Records	Registrar
Application for Non-academic Employment	Business Manager
Alumni Affairs	Alumni Sponsor
Graduate Placement	Dean of the College
Summer Session	Co-ordinator of Summer Session

LA SIERRA COLLEGE BULLETIN

Arlington, California

VOL. XXXV APRIL 15, 1956 No. 2

Published by La Sierra College six times a year, monthly from March to August. The numbers include the summer school announcement, the general catalog issue, and other bulletins of information about the College and its work.

Entered as second-class matter at the post office at Arlington, California.

COMMUNICATIONS DATA

The mail address of the college is: La Sierra College, Arlington, California.

The telephone is on the Riverside, California, exchange: OVerland 9-4321. After 6:00 p.m. and on Sabbath (Saturday), call the following numbers.

President	OVerland 9-2530
Dean	OVerland 9-0549
Manager	OVerland 9-2811
Dean of Men	OVerland 9-1121
Dean of Women	OVerland 9-1451

Student Telephones:

Angwin Hall	OVerland 9-9230
Calkins Hall	OVerland 9-9240
Gladwyn Hall	OVerland 9-9180
Mu Beta Kappa	OVerland 9-9101

The telegraph and express addresses are the same as the mail address.

Tickets over the Santa Fe or the Southern Pacific may be purchased to Arlington; over the Union Pacific, to Riverside.

MT. WILSON
NEWBURY PARK ACADEMY
99
GLENDALE UNION ACADEMY
GLENDALE SANITARIUM
GLENDALE
OCCIDENTAL COLLEGE
66
CAL. TECH.
PASADENA
HUNTINGTON MEMORIAL
POMONA
UNI. of CAL. LA
LOS ANGELES
WHITTIER COLLEGE
WHITE MEMORIAL HOSPITAL
UNI. of So. CAL.
SANTA MONICA
COLLEGE OF MED. EVANG.
CORONA
LYNWOOD ACADEMY
6
91
71
18
55
LONG BEACH
BALBOA
SANTA ANA
LAKE ELSINORE
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LAGUNA BEACH
SAN JUAN CAPISTRANO
OCEANSIDE
SAN PASQUAL ACADEMY
SANTA CATALINA ISLAND
SAN DIEGO UNION ACADEMY
SAN DIEGO
PARADISE VALLEY SANITARIUM

MT. BALDY
CAJON PASS
LAKE ARROWHEAD
ONTARIO
SAN BERNARDINO
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COLTON
• COLLEGE of MEDICAL EVANGELIST
• LOMA LINDA ACADEMY
• LOMA LINDA SANITARIUM
• REDLANDS UNIVERSITY
SIERRA COLLEGE
U.C.R.
RIVERSIDE
ORANGE GROVES
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BEAUMONT
BANNING
IDYLLWILD
MT. SAN JACINTO
74
PALM SPRINGS
TO PHOENIX & ARIZONA ACADEMY
395
60
70
MT. PALOMAR
PAINTED DESERT
99
SALTON SEA
MEXICO

PICTURES

Campus and activity views about La Sierra College are shown in this order as indicated:

At the front

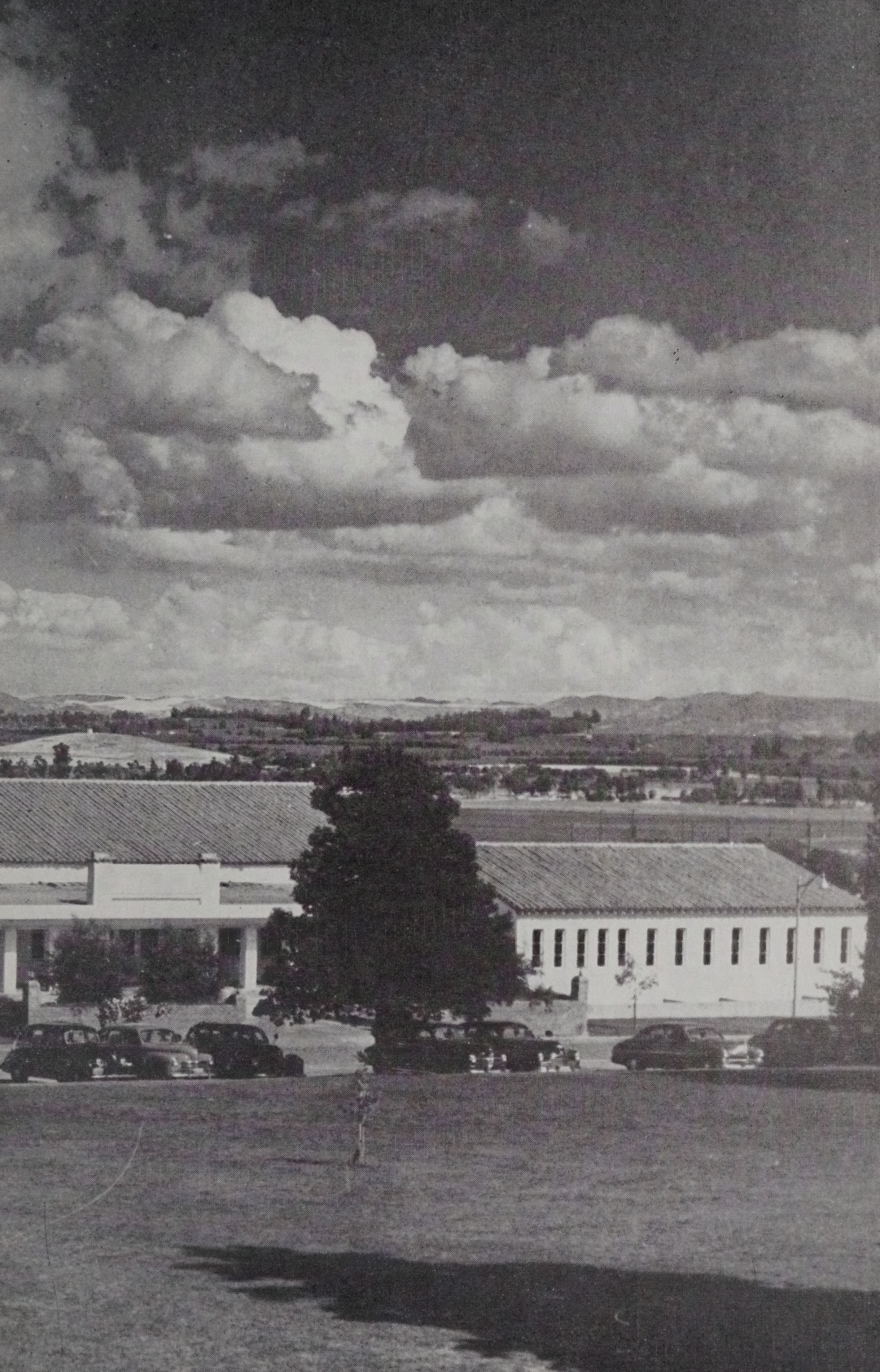
1. Hole Memorial Auditorium.
2. Panorama as seen from the center of the campus.
3. Line drawing of campus and buildings.

Between pages 36 and 37

4. In front of La Sierra Hall.
5. Cafeteria Patio.
6. La Sierra Seventh-day Adventist Church.
7. Interior of La Sierra Church.
8. Library Patio.

Between pages 108 and 109

9. Campus bordering Angwin and Gladwyn Halls.
10. Exhibits as part of class lectures.
11. Through the trees on North Campus.
12. Palm colonnade to Gladwyn Hall.



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HOME ECONOMICS
COLLEGE SHOPS
COLLEGE PRESS
GYMNASIUM
SWIMMING POOL
LAUNDRY
INDUSTRIAL ARTS
CHEMISTRY AND BIOLOGY BLDG.
HOLE MEMORIAL AUD.
HILLTOP HOUSE
PHYSICS BLDG.
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GLADWYN HALL
LA SIERRA CHURCH
MU BETA KAPPA
SO. CHAPEL
ANGWIN HALL
CALKINS HALL
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CAFETERIA

Annual Catalog

1956-1957

LA SIERRA COLLEGE

Arlington, California

THE LIBRARY OF THE
JUL 2 1956
UNIVERSITY OF ILLINOIS

PRINTED AT LA SIERRA COLLEGE PRESS, ARLINGTON, CALIFORNIA

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1956

JULY

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Note 1.—Underscoring indicates examination days.

Note 2.—The last day of each month is the end of a financial period. Accounts are due within ten days.

CALENDAR OF EVENTS

1956 - 1957

SUMMER SESSION 1956

Ten-week and Six-week Term Registration	June 17
Ten-week and Six-week Term Instruction Begins	June 18
Six-week Term Closes	July 27
Four-week Term Registration	July 29
Four-week Term Instruction Begins	July 30
Summer Session Closes	August 24
Summer Session Commencement	August 22

FIRST SEMESTER

Freshman Welcome and Orientation Day (Attendance Required)	Sept. 17
Freshman Registration	September 18
Registration (Non-Freshman)	September 19
Instruction Begins	September 20
Founders' Day	October 3
Autumn Week of Prayer	October 5-13
Mid-Semester Examinations	November 14-16
Autumn Recess 12:30 p.m.	November 21
to 6:00 p.m.	November 25
Senior Organization	November 29
Senior Presentation	December 10
Winter Recess 5:00 p.m.	December 18
to 6:00 p.m.	January 2
First Semester Examinations	January 27 - February 1

SECOND SEMESTER

Second Semester Registration	February 3-4
Second Semester Instruction Begins	(Tuesday) February 5
College Day	March 6
Spring Week of Prayer	March 15-23
Mid-Semester Examinations	April 1-3
Spring Recess 12:30 p.m.	April 3
to 6:00 p.m.	April 7
Second Semester Examinations	May 26-31
Consecration Service	May 31
Baccalaureate	June 1
Commencement	June 2

SUMMER SESSION 1957

Ten-week and Six-week Term Registration	June 16
Ten-week and Six-week Term Instruction Begins	June 17
Six-week Term Closes	July 26
Four-week Term Registration	July 28
Four-week Term Instruction Begins	July 29
Summer Session Closes	August 23
Summer Session Commencement	August 21

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Cleora T. Nachreiner, B.A., *Assistant Librarian*
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G. Clarence Ferguson, *Superintendent of Grounds*
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INSTRUCTIONAL STAFF

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A.B., Emmanuel Missionary College; A.M., University of Southern California; Ph.D., Western Reserve University; graduate work, Universidad Nacional de Mexico; La Sorbonne. *La Sierra College,* 1938-

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A.B., Atlantic Union College; A.M., Boston University; University of Southern California; Certified Professional Secretary. *La Sierra College,* 1944-

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B.A., Pennsylvania State University. *La Sierra College,* 1956-

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HOPE H. HAYTON, B.S. IN L.S., A.M. *Instructor in Library Science*

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* On leave, 1956-57.

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Ettine Iverson, B.A. *Instructor in Physical Education*

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*Lawrence E. Mobley, A.M. *Instructor in English*

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Royal Sage, M.A. *Instructor in Biblical Languages*

B.A., La Sierra College; M.A., Seventh-day Adventist Theological Seminary. *La Sierra College,* 1956-

Yvonne Pasher Sonneland, B.S. *Instructor in Home Economics*

B.S., La Sierra College; graduate work, Oregon State College. *La Sierra College,* 1952-

Robert Warner, M.Mus. *Instructor in Band Instruments*

A.B., Iowa State Teachers College; M.Mus., Northwestern University. *La Sierra College,* 1952-

E. A. Widmer, A.B. *Instructor in Biology*

A.B., Union College; graduate work, University of Colorado. *La Sierra College,* 1953-

*Robert A. Williams, M.A. *Instructor in Speech*

B.A., Western Michigan College of Education; M.A., University of Michigan. *La Sierra College,* 1955-

C. M. Laue, B.S. *Assistant in Business Administration*

B.S., La Sierra College; graduate work, University of California at Los Angeles. *La Sierra College,* 1951-

Virginia M. Mabley, B.A. *Assistant in Secretarial Science*

B.A., Walla Walla College. *La Sierra College,* 1956-

Hazel Brebner Witthaus, B.A. *Assistant in English*

B.A., Union College; graduate work, Claremont Graduate School. *La Sierra College,* 1955-

* On leave, 1956-57.

SUPERVISING TEACHERS IN SECONDARY EDUCATION

FLOYD G. WOOD, A.B. *Principal of La Sierra Secondary Demonstration School*

A.B., La Sierra College; graduate work, S.D.A. Theological Seminary. *La Sierra College,* 1947-

GRACE ALVAREZ, M.A. *Supervising Teacher in History and Spanish*

A.B., Hunter College; M.A. Columbia University. *La Sierra College,* 1949-

E. O. GRUNDSET, B.A. *Supervising Teacher in Biology*

B.A., Emmanuel Missionary College. *La Sierra College,* 1954-

EINAR HAUGEN, M.A. *Supervising Teacher in Religion*

B.Th., Walla Walla College; M.A., Seventh-day Adventist Theological Seminary. *La Sierra College,* 1956-

REVA E. PALMER, M.Ed. *Supervising Teacher in English*

A.B., Pacific Union College; M.Ed., University of Oregon. *La Sierra College,* 1953-

ADOLPHUS H. PARKER, M.A. *Supervising Teacher in Science and Mathematics*

A.B., Union College; M.A., University of Minnesota. *La Sierra College,* 1947-

NELLIE PHILLIPS, M.Bus.Ed. *Supervising Teacher in Business Education*

A.B., Union College; M. Bus.Ed., University of Colorado. *La Sierra College,* 1947-

SUPERVISING TEACHERS IN ELEMENTARY EDUCATION

T. HOWARD STOCKTON, M.Ed. *Principal, Elementary School*

B.A., Washington Missionary College; M.Ed., University of Maryland; graduate work, George Washington University and University of Maryland. *La Sierra College,* 1955-

DEENA D. DEE, A.B. *Supervising Teacher, Multiple Grade*

A.B., La Sierra College; graduate work, San Diego State College. *La Sierra College,* 1953-

ROBERT MCGHEE, B.A. *Supervising Teacher, Grade Three*

B.A., Walla Walla College; graduate work, Arizona State College. *La Sierra College,* 1956-

BERNICE SQUIRE, B.S. *Supervising Teacher, Grades Three and Four*

B.S., Pacific Union College; postgraduate work, University of California at Riverside. *La Sierra College,* 1956-

HELEN R. SWENSON, B.S. *Supervising Teacher, Grade Six*

B.S., University of Denver; graduate work, Claremont College. *La Sierra College,* 1948-

GENEVIEVE TOMLINSON, A.B. *Supervising Teacher, Grades One and Two*

A.B., Walla Walla College, *La Sierra College,* 1954-

MARY WOODWARD, A.B. *Supervising Teacher, Grade Two*

A.B., Pacific Union College; graduate work, University of California at Los Angeles. *La Sierra College,* 1947-

GENERAL INFORMATION

THE PHYSICAL PLANT

LOCATION AND ENVIRONMENT

La Sierra College is located ten miles southwest of the city of Riverside, fifty miles east of Los Angeles, and twenty miles southwest of Loma Linda. The college has easy access by bus, train, and paved highway to all famous cultural and educational centers of Southern California.

The college buildings are grouped on a gentle slope overlooking the Riverside valley, with its world famous citrus and walnut groves and palm-lined boulevards. During the winter months the snow-clad peaks of the Southern Sierras can be seen rising above the orange groves, a view of rare beauty from the campus.

BUILDINGS, EQUIPMENT, AND GROUNDS

The college plant consists of fourteen main buildings of similar architecture attractively grouped on the thirty-acre campus, and, in addition, a physical education building, three industrial buildings, and a general store. A quarter of a mile from the campus are the barns, stables, dairy, and creamery of the college farm.

The Administration Building and J. E. Fulton Memorial Library (built in 1946) contains the administrative and business offices of the college and the offices and classrooms of the Business Division. The library reading room has a seating capacity of 250 students. A reserve book reading room accommodates 50 students. The library is modern in its equipment and arrangement, including a librarian's office, work rooms, and two floors of fireproof stacks, with a total capacity of 80,000 volumes. The stack rooms are equipped with numerous carrells. A microfilm room is fitted with reading machines and storage cabinets. A collection of phonograph records and a player are available in the library.

La Sierra Hall (built in 1923), once the administration building, occupies a central position on the campus. It contains offices and classrooms of the Religion, Social Sciences, and Language Divisions.

San Fernando Hall (built in 1931) contains teachers' offices, classrooms, and laboratories of the Department of Physics and Mathematics.

Palmer Hall (built in 1952) houses the Biology and Chemistry departments. Built in a U-shape, the $160,000 structure contains 30,000 square feet of space for classrooms, laboratories, offices, biology museum, and a branch library.

The Hole Memorial Auditorium Building (built in 1937) contains the music studios, a large practice hall, and numerous student practice rooms on the upper floor. The heart of the building is the college chapel, containing the concert organ and seating 750.

On the lower floor of the building is another auditorium that seats 300. A second pipe organ is on this floor.

The Industrial Arts Building (built in 1949) contains teachers' offices, classrooms, and laboratories for courses in home economics, agriculture, wood trades, and drafting.

The Demonstration School (built in 1947), located northeast of the main campus, combines the functions of parochial school for the community and demonstration school for the Department of Elementary Education. There are ten classrooms and ten teachers' offices. Each classroom has space for activities. The construction is mainly of fireproof Latisteel.

Mu Beta Kappa (built in 1922), residence hall for men, is one of the two original buildings on the campus. It contains forty-two student rooms and the office and living quarters of the assistant dean of men.

Gladwyn Hall (built in 1922), residence hall for women, is the other original building, erected the first year of the school. It contains forty-three student rooms and the office and living quarters of the assistant dean of women.

Calkins Hall (built in 1938), residence hall for men, contains the office and living quarters for the dean of men, a dispensary, and sixty-six student rooms.

Angwin Hall (built in 1940), the newest residence hall for women, contains public rooms similar to those of Calkins Hall, office and living quarters of the dean of women, and fifty-one student rooms.

South Chapel (built in 1951), a new campus structure, is a place of worship for dormitory men. In addition to being used for morning and evening worship, the building is always open for private devotion. Of modified Gothic style, the building seats three hundred.

The Cafeteria (built in 1941) contains on the main floor a dining room seating four hundred, and a small dining room known as the "Banquet Room." On the lower floor are located the office and rooms of the Art Department, the apartments of the cafeteria director, the kitchen, and the bakery.

College Hall (built in 1935), on Campus Drive, is the recreation center for the college. It is used by the Southeastern California Conference of Seventh-day Adventists for its annual camp meeting and by the college during the school year as a gymnasium.

The Industrial Buildings include the La Sierra College Press, the laundry, the college store, and a shop housing wood and metal working equipment and offices for industrial superintendents.

The Physical Education Building (built in 1946), also located on Campus Drive, adjoins the recreation field and is built around the

swimming pool. The building contains shower and locker rooms, offices and classrooms.

The College Farm consists of some four hundred acres; two-thirds of it is under irrigation. Two deep wells equipped with turbine pumps furnish the water for irrigation and domestic purposes. The college has a dairy herd of about two hundred head, and a modern creamery and ice cream plant.

The Church (built in 1947), a beautiful house of worship for college and community, is located north of the campus on college property. It has a seating capacity of more than 2,200 in the main auditorium. A large church pipe organ was installed in the church in the spring of 1952.

The Secondary School, recently completed, is a modern unit with 18,000 square feet of space. Built in a U-shape, the building contains classrooms, 8 teachers' offices, laboratories for home economics and chemistry, a chapel seating 300, a library, administrative offices, and various work and storage rooms.

HISTORY AND STANDING

HISTORY

On October 3, 1922, La Sierra opened its doors as the academy of the Southeastern California Conference of Seventh-day Adventists. It was the purpose of the founders to provide educational facilities with a denominational stamp and according to the denominational blueprint. These principles call for a rural setting and instruction by Christian teachers in the arts and sciences of living and service. Each student is required to gain some experience in the area of applied arts, and encouragement is given to work experience on the campus. From the beginning the school has been coeducational.

The first college work in teacher training was offered in 1923, and the school acquired the name La Sierra Academy and Normal School. In 1927 the school was raised to the junior college level, and the name was changed to the Southern California Junior College. In 1938 the Northwest Association of Secondary and Higher Schools accredited the college for fifteen grades of work. Within a few months the college became a full sixteen-grade institution, and the California Legislature approved a new charter, changing the name to La Sierra College and authorizing the granting of degrees.

ACCREDITATION

La Sierra College is accredited as a college of liberal arts by the Western College Association and by the Northwest Association of Secondary and Higher Schools. It is accredited by the State Department of Education of California to prepare students for elementary education teaching certification.

MEMBERSHIPS

In addition to membership in the accrediting organizations listed above, the college is a member of the Association of Seventh-day

Adventist Colleges and Secondary Schools, the American Council on Education, and the Association of American Colleges.

SCHOLASTIC ORGANIZATION

The college has arranged its studies into two general levels:

A. The lower, or junior college, biennium, designed to lay foundations and to survey the principal areas of knowledge.

B. The upper, or senior college, biennium, designed to build men and women of intellectual maturity prepared for service in community and church affairs, and to provide for the student concentrated study in the field of his chosen profession.

The college also offers a number of semiprofessional and preprofessional curriculums designed to serve the needs of students going into the professions of medical technology and medical therapy, dentistry, dietetics, and nursing, and those preparing for careers in business and teaching.

Those who successfully complete a four-year curriculum, incidentally meeting the graduation requirements of the college, are granted the degree of Bachelor of Arts, Bachelor of Science, or Bachelor of Music Education.

GENERAL AIMS AND OBJECTIVES

La Sierra is a coeducational Christian school. As a liberal arts college it seeks to aid the student in the development of a sound mind in a sound body, to help him to achieve that degree of mental proficiency which will enable him to work efficiently, and to train him to a degree of social competence which will make him a responsible and effective member of society. As a Christian school, the college is concerned with the spiritual welfare of its students, with the development of ideals, of character, and of behavior patterns in harmony with the Biblical specifications of a man of God. The philosophy of education to which the college subscribes is well stated in the words of one of the founders of the Seventh-day Adventist denomination: "Education is but the preparation of the physical, intellectual, and moral powers for the best performance of all the duties of life."

STATEMENT OF OBJECTIVES

In harmony with the conception of education described above, the objectives of the college are defined as follows:

1. *Intellectual Objectives.* The college seeks to develop in its students the ability to do independent and creative thinking and to cultivate in them an acquaintance with the basic facts and principles of the major fields of knowledge, together with a more specialized mastery of one of these fields. Students are expected to develop effective expression in written and spoken English, to acquire an attitude of open-minded consideration of controversial questions, and to develop a continuing intellectual curiosity which will extend through their post-college years.

2. *Spiritual Objectives.* As a church-sponsored institution, La Sierra places large emphasis upon the place of religion in the personal lives of the students. It seeks to establish in the students an unswerving allegiance to the principles of the Christian faith, and a sense of personal responsibility to participate in the mission program of the church. Students are encouraged to develop a distinctly Christian philosophy of life as the basis for the solution of both personal and social problems.

3. *Ethical Objectives.* The college endeavors to lead students to the acceptance and practice of those ethical and moral concepts which are approved by the enlightened conscience of mankind, to develop tolerance toward the rights and opinions of others, and to accept the social obligation of serving humanity and striving for its welfare.

4. *Social Objectives.* The social program is designed to guide students in the development of attractive personalities which will find ready acceptance in a sound social order and which lead to enthusiastic participation in its activities. Students are encouraged to develop an understanding and consistent practice of approved social graces and to participate in recreational activities which contribute to a well-balanced personality.

5. *Aesthetic Objectives.* The college seeks to develop in students an acquaintance with the masterpieces in literature and the fine arts, a knowledge of their historical development, an appreciation of the standards and type of beauty represented by them, and proficiency in their creation and presentation.

6. *Civic Objectives.* The college endeavors to give its students an intelligent understanding of the principles of government and to develop in them a willingness to accept the responsibilities and privileges of citizenship, a recognition of the constitutional rights of other individuals and social groups, a well-founded understanding of the leading domestic and international principles, and a willingness to cooperate in bringing about the improvement of the social order.

7. *Physical Objectives.* The physical education program is designed to give students an intelligent understanding of the principles governing the function and proper care of the body. It seeks also to establish in students a consistent observance of habits and practices which foster maximum physical vitality and health. Emphasis is placed on intelligent recreational use of leisure time and on cooperation with others in the improvement of the physical well-being of society.

8. *Vocational Objectives.* The applied arts program is planned to develop in students an appreciation of the dignity of labor and to give the requisite knowledge and understanding to enable them to choose their vocations intelligently and in harmony with their individual abilities and aptitudes. A program of terminal vocational education is provided which prepares for certain vocational and semiprofessional activities. Also offered is preprofessional training prerequisite to admission to specialized professional and graduate studies.

CONDUCT STANDARDS AND CONTROL

It is the purpose of the college to develop strong men and women with the high standards of scholarship and the self-discipline necessary for Christian leadership. The campus government and discipline, therefore, are founded upon the principle that character building is the highest object of education and that a good name, standing for integrity, honor, and godliness, is the objective alike of the student for himself and of the college for him.

REGULATIONS

No religious test is applied, but all students are expected to give respect to the Word of God, to attend religious services, and to abide by the regulations of the college as listed in the student handbook (supplied on request or when the student is notified of his acceptance), or as announced by the faculty. The regulations at La Sierra College have developed from the experience of students and teachers. Each rule and traditional practice is a guidepost directing the student to successful and effective campus living, left there by those who have gone before. *Application and enrollment constitute on the part of the student an agreement and a pledge to honor and observe the habits, manners, and regulations prevailing in the college.*

As the college retains to itself complete freedom of judgment in the admission of a student, so also it must be the sole arbiter of the fitness of the student to continue his residence and study in the school. Any student who does not maintain a satisfactory level of scholarship or who, in the judgment of the faculty or its properly authorized committees, is found to be unresponsive or uncooperative in his relation to the objectives of the college, or unfaithful to his pledge, may be deprived of membership without specific charges.

DEGREES OF DISCIPLINE

Disciplinary actions of the administration and faculty normally follow a pattern based on the seriousness of the infraction of college regulations. These are classed as follows:

Warning: Cautionary admonition (not a matter of permanent record) usually given verbally by the dean to whom the student is responsible.

Censure: Reproof for an infraction of serious magnitude, which becomes a part of a student's record.

Probation: Disciplinary status indicating that a student may be dismissed without further committee action for continued misconduct.

Suspension: Exclusion from the college for a limited period.

Termination at end of semester: Actual dismissal but with permission to complete courses in progress provided the semester is relatively near its close and provided the student's conduct is acceptable during the interim.

Dismissal: Immediate exclusion from the college for an indefinite period.

STUDENT PERSONNEL SERVICE

ORIENTATION

All new students are required to attend the program of orientation which precedes registration each year. This program is conducted to familiarize the student with the traditions, ideals, policies, ethics, and regulations of the college. In return, the college endeavors to become better acquainted with the new students so that its personnel will know how and what to advise in each student's college work.

GUIDANCE

The guidance program of the college is constructed on the basis of the student's high school record, his college entrance tests, and his own needs. Each entering student is assigned to a faculty adviser and is invited to consult him as frequently as he wishes on personal, academic, or religious matters. Beginning with the student's sophomore year, or as soon thereafter as he has chosen a major field for study, his major professor becomes his adviser, and this relationship remains constant until graduation.

PLACEMENT

One of the services of the student personnel program of the college is help toward the appointment of its graduates to positions for which they have prepared. This service to seniors and alumni is maintained without fee or commission. The placement office keeps credentials of the graduates and on request transmits copies of the student's record and recommendations to prospective employers.

RESIDENCE

The greatest profit and enjoyment and the greatest opportunity for full participation in the spiritual, scholastic, and social activities of the college undoubtedly come to the students who live on the campus. Therefore, all unmarried students who do not reside with their parents, close relatives, or legal guardians are expected to live in the residence halls on the campus.

Exceptions are occasionally made for mature and trustworthy students who may, on written request, be given permission to work in approved private homes for their entire room and board.

For information as to room furnishings to be supplied by the student, see the student handbook.

HEALTH SERVICE

It is the purpose of the college to encourage the development of the physical powers as well as the mental and spiritual. The health service is under the direction of a registered resident nurse presiding over well-equipped medical units.

Believing that diet plays an important role in the preservation of health, the college maintains a cafeteria where wholesome food is served and where an effort is made to educate the students in the selection of balanced meals.

PHYSICAL EDUCATION PROGRAM

In addition to providing the health service, the college gives attention to physical fitness through recreational opportunities and through courses designed to strengthen and develop the body. These courses include gymnastics and field exercises, swimming for life-saving as well as for health, body-building recreational activities, and instruction in healthful living.

Since so many college students leave school to follow a sedentary profession, one which usually does not continue body-building and may involve considerable strain on the physical and nervous system, an attempt is made to interest each student in some health-building activity which he will carry over into adult life.

CAMPUS ORGANIZATIONS

Opportunities are offered for growth and experience which leadership in student organizations affords. All campus clubs are governed by a constitution or set of by-laws which have been approved by the college personnel committee.

The Associated Student Body provides for the cultural, recreational, and spiritual activity of the college, and furnishes a point of contact between faculty and students. All students become members of this organization upon registration.

The Missionary Volunteer Society is designed to give opportunity for student expression of Christian ideals. Bands for those interested in medical missionary work, missionary correspondence, literature distribution, and Christian help work are under the direction of this organization.

The Ministerial Fellowship is an organization primarily for those men and women who plan to be gospel workers and who wish to begin their service while in college.

The La Sierra College Chapter of the American Temperance Society is an organization active in combating the liquor and tobacco traffic and in presenting temperance principles to the world. The society is open to everyone interested.

Sigma Phi Kappa is a club whose objectives are to encourage an expression of individual ideas and to promote social development among the women of the college.

Mu Beta Kappa is an organization for the promotion of good will and general culture among the men students.

The Arts and Letters Guild is designed to cultivate a greater appreciation of the finer things of life and to provide opportunity for entertaining study of the literary and graphic fine arts. The guild offers opportunity to those thus interested to gather periodically in an informal way for mutual enjoyment.

The La Sierra College Biology Club aims to further the interests of all students of biology; to unify and promote good fellowship with those who desire personal enrichment through its activities; to engender a love for the wholesomeness of personal contact with the out-of-doors. Club members are encouraged to use the facilities of the department for club-sponsored projects. Membership is open to all biology majors and minors. Others interested may become associate members by invitation.

The College Commercial Club objectives are to foster a spirit of friendliness and cooperation among commercial students, to aid in training for leadership, and to present current developments and problems in business life. The club meetings are divided equally between social and educational activities.

The Filomena Club is open to all preclinical nursing students. Its aim is to foster an interest in nursing and to acquaint the student with some of the trends and current problems in her chosen field.

The International Relations Club is open to college men and women wishing to participate in study and discussion of the social, religious, and political interrelations of the nations in today's world. The club is a local chapter of an organization sponsored by the Carnegie Endowment for International Peace.

Lambda Rho Upsilon endeavors to foster extracurricular interest in the things and aims of chemistry. Membership is open by invitation to students who elect to major in chemistry. Juniors and seniors qualify for active membership, and students below junior standing qualify for associate membership.

Le Cercle Francais aims to foster an interest in France and its culture. Although this club is organized primarily for students in the French department, others who are interested in the French language or in French culture are invited to join.

Deutscher Verein is a club designed to create among the students of German an interest in and understanding of the German people, their culture, and their contribution to the world's heritage in the field of language, literature, music, and science.

The Physics Club has for its purpose the fostering of interest in physics and its applications in all fields of human activity. Membership is limited to physics majors and minors. Others who have a special interest in this field may become associate members by invitation. Facilities of the physics laboratory and shop are made available for project work sponsored by the club.

The Teachers of Tomorrow organization is a laboratory school for the enrichment of preprofessional experience in educational thought, leadership, and service. The organization provides an opportunity for future teachers to gain a practical knowledge and appreciation of their chosen profession, its purposes, its possibilities, its

problems, and its leaders. This club was the first of its kind to be organized within the General Conference Educational Department, and the name originated on the La Sierra campus.

The Guild Student Group of the American Guild of Organists has been authorized at La Sierra College by the national headquarters in New York. Its purpose is to promote good church music and to develop an interest in the work of the American Guild of Organists.

The Colporteur Club promotes interest in colporteur evangelism. All students interested in the aims of this organization are eligible for membership.

The Photography Club, with its membership composed of those with some experience and much interest in things photographic, serves the double purpose of providing a hobby activity and making permanent pictorial records of important events of the school year.

The Radio Club has for its purpose the increasing of knowledge and skill in short wave communication. The club maintains transmitting and receiving equipment for the use of its members.

PUBLICATIONS

The College Criterion. The college weekly newspaper is written and edited by students and is the official publication of the Associated Student Body.

The Meteor. The yearbook is also written and edited by the students. Its purpose is to present a picture and story of campus life at La Sierra College.

La Sierra College Bulletin. The Bulletin is published at stated times during the year, giving information about the college, its departments, plans, and work. The catalog issue, an annual number, shows the organization of the college, course offerings, financial information, board members, faculty, other staff members, and graduates.

MISCELLANEOUS INFORMATION

THE SUMMER SCHOOL

The college conducts a summer session divided into terms of ten, six, and four weeks. For information write to the dean of the college for the summer session Bulletin.

THE PREPARATORY SCHOOL

The college has connected with it a fully accredited academy or preparatory school. For information write for the Bulletin of La Sierra College Preparatory School

ALUMNI ASSOCIATION

The purpose of the La Sierra College Alumni Association is to promote a spirit of fraternity among the alumni and to maintain their interest in the college.

OFFICERS

James V. Scully, '45, president
Harry Garlick, '50, vice-president
Delos Champaign, '50, vice-president
Earl Gillespie, '50, secretary
James Hoggan, '48, treasurer
Charles Case, '54, editor, Alumni News

ACADEMIC STANDARDS

ADMISSION

APPLICATION PROCEDURE

La Sierra College follows a policy of selective admission. The chief factors considered in determining eligibility are: (1) character, (2) citizenship reputation, (3) scholarship. Formal application is made on blanks supplied by the college, accompanied by a fee of $2 and a picture of the applicant. This application should be on file at the college at least thirty days before the student desires to enter. *Under no circumstances should a student come to the college before formal notice of acceptance by the Admissions Committee.*

The applicant should request the registrar of the school last attended to submit directly to the Registrar's Office at La Sierra College an official transcript of record indicating all previous secondary school and college work. It is the responsibility of the applicant to see that such credendials are sent to La Sierra College at the time application is made. Students whose transcripts are, for acceptable reasons, not on file at the time of registration may be given a tentative schedule for a period not to exceed fifteen days, pending receipt of transcript.

All correspondence concerning admissions should be addressed to the Admissions Office, La Sierra College, Arlington, California.

When a student who plans to live in one of the residence halls receives notice of acceptance, he should send $10 for a room deposit, as *notice of acceptance does not automatically reserve a room in the school homes.* When the student registers, the room deposit is applied on his entrance charges.

ADMISSION PROCEDURES

ADMISSION TO FRESHMAN STANDING

Graduates of accredited secondary schools may be admitted as regular college students upon presentation of an official transcript certifying completion of 16 units with an average grade no lower than C (where the passing grades are A, B, C, D).

Although the pattern of subjects required for entrance is not rigidly prescribed, it is recommended that the prospective college student give primary emphasis in his high school program to the subjects which are considered especially valuable as preparation for enrollment in a liberal arts college, with particular attention to the prerequisites of the field in which he intends to concentrate.

ADMISSION BY EXAMINATION

Graduates of unaccredited secondary school, or graduates who, through no fault of their own, are unable to furnish complete credits may qualify for freshman standing by passing such examinations as the Academic Policies Committee shall determine. These examinations should be taken before the student completes his registration.

PROVISIONAL ADMISSION

Applicants who in the opinion of the Committee on Admissions are qualified to carry college work but who do not fulfil the specified pattern for regular admission may be admitted subject to advisement regarding their curriculum content. Entrance deficiencies must be removed or provided for before the close of the first year of college registration. In many instances deficiencies may be removed by carrying specified courses on the college level.

ADMISSION TO ADVANCED STANDING

A transfer student wishing advanced standing must present to the registrar an official transcript of record and a certificate of honorable dismissal from a school of recognized collegiate rank. He must have a grade average of at least C in acceptable liberal arts credits. Advanced standing is provisional for the first semester in residence. During this semester the student must maintain an average grade of at least C in order to achieve full standing. No portion of a college record may be omitted by the student applying at La Sierra College for advanced standing.

ADMISSION OF VETERANS

Veterans' applications are considered on the same basis as those of other students. Since many service units have only a temporary life, it is the responsibility of the veteran to have and present official certificates describing any service-connected education for which college credit is desired. Such credit will be allowed on the basis of recommendations found in the *Guide* of the American Council on Education, or in the recommendations of the California Committee. All requests for the evaluation of service-connected education credits should be addressed to the registrar of the college.

Veterans who have not met all formal requirements for admission will be given careful consideration. Those who give evidence of ability to carry college work may be admitted as special students and permitted to remove as many as possible of their high school deficiencies on the college level, afterwards being given regular standing. Those who wish to accelerate their progress toward graduation are encouraged to register in the summer sessions.

CLASSIFICATION OF STUDENTS

CLASS LEVEL

A student carrying the minimum residence requirement of 12 semester credit hours will be admitted to sophomore standing after successfully completing 28 semester hours, and to upper biennium standing after completing (1) 50 hours of lower biennium courses with at least a 1.0 (C) average and with all lower biennium requirements completed or in the current registration, or (2) 56 hours of lower biennium courses with at least a 1.0 average and with all lower biennium requirements except 12 hours, which must be completed before senior standing is granted, or (3) 60 hours of lower biennium courses with at least a 1.0 average.

A student is eligible for membership in the organized junior class only if he is carrying to completion at least ninety-two semester hours of credit, has at least 1.0 average, and has a reasonable expectation of completing the requirements for a baccalaureate degree within two semesters after the completion of the junior year. After completing ninety-two hours in an acceptable and appropriate program of studies with at least a 1.0 average, the student is eligible for senior standing and may file application with the registrar for degree candidacy.

College seniors will not be given credit for freshman courses taken in the senior year even though they are required. All such courses must be taken before the student reaches senior standing.

SPECIAL STUDENTS

Students wishing to follow a course of study of their own choosing may be admitted as "special" if the dean of the college is satisfied that their maturity and scholastic background merit admission.

ACADEMIC REGULATIONS AND PRACTICES

REGISTRATION

The college has appointed two Welcome Days at the opening of the year for freshmen. The purpose of these days is to introduce the freshman to school life and to help him plan his program. Attendance of all freshman students is required, the only exception being those students who have attended La Sierra College a year but who do not have sufficient credits for sophomore standing. During Welcome Days certain required tests are administered to the freshman, the results of which aid the advisers in their work of counseling and registering the students.

Other students are expected to be present for the regular registration days, which immediately follow freshman registration.

Regular registration is permitted for the first two weeks of the winter semester and for the first three days of the summer sessions. Students wishing to enter later must meet the following stipulations: (1) they must secure permission from the president or dean; if the permission is granted, they must (2) pay a late registration fee of $5.00; (3) submit to a reduction of class load by one credit hour for each week they are late, including the first two; (4) make up the work missed in the classes to which they are admitted. Counting from the opening of the semester, no student will be accepted for regular class work after four weeks of the winter semester or three days of the summer sessions.

ENTRANCE APTITUDE AND PLACEMENT TESTS

Freshman and students new to La Sierra College for whom aptitude and placement scores are not available are required to take tests that provide such scores before they register. The tests are to be taken on designated days. The college reserves the right to control

the scholastic program of the student on the strength of the test returns, as checked against his scholastic record at the time of entering.

All lower division students entering La Sierra College for the first time and all other students who do not have credit in Freshman English from some other college are required to take the English Placement Test. The purpose of this examination is to test the student's ability to write the English language acceptably, demonstrating a knowledge of spelling, grammar, punctuation, and sentence structure. Students who are low on the English Placement Test will be required to enroll in course English OA, Functional Grammar and Language Elements, and to pass a satisfactory examination in the subject before being eligible for Freshman English 1-2.

CLASS LOAD CONTROL

No student will be permitted to take more than 16 semester hours and one-half hour of physical education except by petition. Permission may be granted for 17 semester hours and one-half hour of physical education only if the student has maintained during the preceding semester of residence a minimum grade point average of 1.5; or 18 semester hours and one-half hour of physical education with a minimum grade point average of 2.0 The student will be asked to lessen his class load during the semester if he does not maintain a grade point average of at least 1.0. Under no circumstances does the college permit a student to carry more than 18 semester hours and one-half hour of physical education.

SCHOLARSHIP PROBATION

A student not maintaining at periodic checking times a grade point average of 1.0 is liable to scholarship probation. This means that his scholastic schedule and habits are subject to review by his counsellor, the guidance director, and the dean of the college. He may be called upon to reduce his class-hour load, curtail extracurricular activities, improve study methods, or be advised to change his curriculum, or be put under the restrictions that accompany scholastic probation. A student on scholarship probation for two consecutive semesters may be notified, depending upon the evidence of improvement as shown in his most recent semester and degree of his delinquency, that his registration at this college is not profitable to him. A student who has been dropped from registration because of this policy may be readmitted only when there is evidence that the cause of the poor scholarship has been removed. By advisement and administration, the college uses every means at its command to help students do their best work and realize their ambitions.

PROGRAM CHANGES

A student already enrolled may change his program of studies for sound academic reasons during the first week of a regular semester with the consent of the instructor, the adviser, and the dean of

the college. Courses may be dropped during the first six weeks on the same basis, although a $1 charge is made for a change after the first two weeks. After the first six weeks of a semester, courses dropped will be recorded as failures (Wf), unless the student is forced to drop because of circumstances beyond his control, in which case, if his grade was passing at the time of withdrawal from the class, he may be granted a passing withdrawal (Wp) by the dean of the college.

SPECIAL EXAMINATIONS

Under unavoidable circumstances, such as the illness of the student, missed examinations may be made up after advance arrangements have been made with the instructor and a permit secured from the business manager, who is authorized to collect a fee of $3 for each such permit.

PRIVATE WORK AND CORRESPONDENCE

No student may teach or take private school work or correspondence courses while enrolled at the college without securing permission in advance from the dean of the college. Twelve lower division hours are the permissible maximum for credit. No such permission can be granted for courses to apply on the major or minor or in the upper biennium. Credits earned in violation of this regulation will not be honored by the college. Credits earned by correspondence after failure in the same course at La Sierra College will be honored only after the successful passing of a comprehensive examination over the course given by the appropriate instructor in the college. Credits out of harmony with these regulations, including unauthorized summer work, will not be honored by the college. Tutoring service is arranged by the staff with the consent of the Academic Policies Committee.

TRANSFER CREDITS

Credits from schools outside the United States and its dependencies will be sent to the United States Office of Education for evaluation.

A student transferring credits from another institution must earn a C average computed separately on work taken at La Sierra College in order to qualify for graduation or certification.

Credits earned at another institution will not be issued as transfer credits accepted by La Sierra College until the student has completed a minimum of one year in successful residence at La Sierra.

CLASS AND CHAPEL ATTENDANCE

Regular attendance at all classes and chapel exercises is required of all students. A leave of absence does not excuse from any college class, and no unexcused absences are allowed withotu penalty. A maximum of five unexcused chapel absences is permissible.

THE SEMESTER HOUR

The semester hour is the unit of credit earned by attending one fifty-minute class period a week for one semester of eighteen weeks and satisfactorily meeting the course requirements, credit for each such hour being based on the standard of two hours of preparation for each class period. Three clock hours of laboratory each week, or three fifty-minute periods each week in classes not requiring outside preparation, continued for one semester, are valued at one semester hour of credit.

THE GRADING SYSTEM

Grade reports and scholastic credit are given in letter grades, as follows:

Grade	Grade Points per Semester Hour
A (excellent)	3
B (above average)	2
C (average)	1
D (inferior)	0
F (failure)	minus 1
E (warning)	
I (incomplete) (Becomes a failure if not removed within nine weeks after the close of the nine-weeks period or semester.)	
Wp (withdrew passing)	0
Wf (withdrew failing)	minus 1

SCHOLARSHIP REPORTS

Reports showing progress grades are issued by the registrar after the mid-semester examinations. Semester grades are issued by the registrar and recorded for permanent reference.

GRADUATION STANDARDS

DEGREES AND CERTIFICATES

La Sierra College holds membership in the Western College Association, the Northwest Association of Secondary and Higher Schools, and is chartered by the State of California to bestow appropriate literary honors upon its graduates, including the baccalaureate degrees. The college confers the degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Music Education.

The BACHELOR OF ARTS degree is conferred upon students who have fulfilled the general and basic requirements for graduation, with a major field of concentration and the prescribed cognates.

Students may select a major from the following:

Biology
Business Administration
Chemistry
Elementary Teacher Education
English
French
Health and Physical Education
History
Home Economics
Music
Physics
Religion
Secretarial Science
Social Science
Speech
Theology
Visual Arts

The BACHELOR OF SCIENCE degree is conferred upon a student who completes in a satisfactory manner one of the professional curriculums appearing in this BULLETIN or approved by the Academic Policies Committee. Curriculums are in the following fields:

Agriculture
Building Construction
Business Administration
Elementary Teacher Education
Home Economics
Nursing Education
Secretarial Science

Minors may be secured in the same fields as the majors (except in Nursing Education and Theology) and in addition may be secured in the following fields:

Biblical Languages
German
Journalism
Mathematics
Secondary Education
Spanish

The BACHELOR OF MUSIC EDUCATION degree is offered for those who wish to teach in the field of music. Requirements of the curriculum are listed on pages 81 and 82.

The college also grants certificates to students completing junior college preprofessional and terminal curriculums.

THE BACCALAUREATE DEGREES

To prepare for a baccalaureate degree, the student must meet specified standards as to college entrance and amount, grade, and distribution of work in the particulars indicated below (A, B, C, D, E).

A. ENTRANCE REQUIREMENTS

Graduates of accredited secondary schools may be admitted to curriculums leading to the degrees of Bachelor of Arts, Bachelor of Science, or Bachelor of Music Education upon presentation of an official transcript certifying completion of a minimum of 16 units with at least a C average scholarship record distributed as follows:

a. English: 3 units
b. At least 1 unit from each of the following fields:
   (1) Mathematics
   (2) Natural Science
   (3) Social Science
c. Additional units to make a minimum of two units in each of two fields selected from the following:
   (1) Social Science
   (2) Foreign Language
   (3) Mathematics
   (4) Natural Science
d. Not more than 4 units of the 16 may be in any one field.

B. OVER-ALL REQUIREMENTS

1. The completion of the entrance requirements.
2. The completion of a total of 128 semester credit hours, of which at least 40 must be in the upper biennium.
3. Grade points equal to the total number of credit hours, that is, a minimum over-all average of C.
4. Satisfaction of the minimum residence requirements:
   a. The candidate for a degree must attend La Sierra College for two semesters or for 36 weeks in summer sessions or in combination with one semester and summer sessions, and must earn a minimum total credit of 24 hours.
   b. At least 24 of the last 30 hours must be earned at La Sierra College.
   c. At least 8 hours in the major field and 4 hours in the minor field (if a minor is to be designated) must be earned at La Sierra College.
5. A major concentration (see D below) with prescribed cognates, as indicated for the particular major elected by the student. (Minors are outlined for those who need them for teacher certification or for other reasons.) *No grade below C may be counted on a major or a minor.*
6. Approval of the candidate for a degree by the faculty as to character and citizenship, in addition to scholarship.
7. Completion of the General Education and other basic requirements of the Bachelor's degree. (See C and E below.)

BACHELOR OF ARTS DEGREE: CURRICULUM ORGANIZATION (C, D, E)

C. GENERAL EDUCATION REQUIREMENTS

"General Education," coming mainly during the two first years, is recognized as basic in degree requirements at La Sierra College. The courses are so organized as to give the student a general grasp of those fields of knowledge regarded as significant in liberal arts education. The curriculum prescribes most of these courses in the freshman and sophomore years in order to provide an enrichment of the student's intellectual equipment and to give him balance and orientation for his major concentration and other upper division classes. Room is left in the first two years for electives and lower division requirements for the majors. The prerequisites for a few majors substitute for certain General Education courses, as indicated in the curriculums outlined for the departments concerned. Part of the General Education requirements may be elected from upper division literature and fine arts.

The classes listed here for the first two years have General Education as their main objective. Those marked with an asterisk are required and are normally to be taken in the indicated year.

Freshman Year	*Hours*
*Religion 1, 2 (Life and Teachings of Jesus)	4
*History of Western Civilization	6
*Freshman English	6
Psychology	3
Beginning Language (Not required if the student has two entrance units in one foreign language and aims to continue the same language in college.)	6
*Physical Education	1

Sophomore Year	*Hours*
*American History and Institutions (Course so organized as to meet all state requirements in constitution and government. For permissible variations, see under Basic Completion, Social Studies, page 35.)	6
*Intermediate Language (The first semester of this may not be taken for credit if the student presents three units of college entrance credit in this language.)	6
*Health Principles	2
*Fine Arts (Course 57, 58)	4
*Basic Science (See course 63 and 64 on page 44) (Substitutions allowed for those who need equivalent number of hours in lower division chemistry, physics, biology as prerequisite to their major concentration.)	8
*Physical Education	1

D. MAJOR CONCENTRATION

Not later than the end of the sophomore year the student should decide on a field for emphasis during his upper biennium. This is known as his "major concentration." Each department

has outlined the sequence of courses required in the department for such concentration (or major) with prescribed cognates from related areas. These are printed in this issue of the BULLETIN in connection with the respective departmental pages. The departments assign an adviser to each student major to counsel him in his schedule of studies and generally to help him toward satisfactory achievement.

E. BASIC COMPLETION

In addition to the General Education but including Major Concentration (with indicated cognates), degree requirements call for completion of course hours in specified areas, according to the plan here indicated:

1. RELIGION: 8-10 hours, including courses 51, 52 (or 151, 152) or 71, 72 (or 105, 106). At least four hours must be in the upper biennium and may include a maximum of four hours in applied theology or religious history. Course 25 (Introduction to Religion) is required of freshmen with less than two units of academy religion credit. Transfer students ordinarily take a minimum of four hours of religion for each year of attendance at La Sierra College (up to a total of 12).

2. SOCIAL STUDIES:
   a. *History*: Variations from the history specified in the sophomore year of the General Education requirements (page 34) may be by any of these patterns:
      I. History 91, 56 and 112 (or Political Science 58).
      II. History 92, 55, and any other two hours of United States history
      III. History 55, 56, and Political Science 57, 58.
   b. *Social Science*: 3 hours of social science in addition to the above from lower or upper division courses.

   A student may waive the American History, the United States Constitution or government, the California government, any or all of these, by passing waiver examinations. Students planning to take these examinations should obtain suggested readings from the respective department before attempting the examinations. Waiving any of thse requirements will allow replacement with other courses in history or the other social sciences.

3. LANGUAGE, LITERATURE, SPEECH:
   a. *English*: 8 hours, including at least 4 hours of literature; may include 4 hours of speech.
   b. *Foreign Language*: 2 hours in the same language as the General Education foreign language.

4. APPLIED ARTS: 4 hours, the student to select from Home Economics 7, 8, 11, 51, 52, 59, 99, 118, 176; Building Construction 11-12, 41, 42, 57, 58, 68; Agriculture 7 (only if 8 is also taken), 8, 11, 27, 55, 68, 15, 16; Physics 15, 16 (Radio I, II), only if both semesters are taken; a maximum of 2 hours selected from Secretarial Science 3, 9, 57; Baking.

BACHELOR OF SCIENCE DEGREE

Requirements for the Bachelor of Science degree are the same as those for the Bachelor of Arts degree except that foreign language and the fine arts are not required. The Bachelor of Science degree may be obtained in the following fields:

Agriculture
Building Construction
Business Administration
Elementary Teacher Education
Home Economics
Nursing Education
Secretarial Science

BACHELOR OF MUSIC EDUCATION DEGREE

See pages 81 and 82 for requirements of this degree.

DEFINITION OF MAJOR AND MINOR

A major is defined as a subject concentration of thirty semester hours, or more if so stated in the description of departmental requirements, of which at least fourteen must be in the upper biennium.

The minor is defined as a subject concentration of eighteen or more semester hours, of which at least nine must be in the upper division unless otherwise specified in the departmental requirements.

BULLETIN OF GRADUATION

A student may be graduated, provided he does not break residence by as much as a continuous calendar year, under one of these bulletins:

a. The bulletin he enters under
b. The bulletin of his junior year
c. The bulletin of his senior year

If a student breaks residence by as much as a continuous 12-months year, he then may not be graduated under the bulletin of any year previous to his re-entry.

The responsibility for fulfilling the graduation requirements rests primarily with the candidate for a degree.

DIVISIONS OF INSTRUCTION

Available majors and minors are listed in their respective sections. Of the courses listed, those marked with an asterisk (*) will be offered in 1957-1958, those without this mark will be offered in 1956-1957 if in sufficient demand. Courses marked with the double asterisk (**) are offered as needed by minors or majors, and then only by special arrangement.

The college reserves the right to withdraw a lower biennium class offering for which fewer than ten students have registered.

Courses carrying hyphenated numbers are two-semester courses and must be taken for both semesters before credit can be applied toward any curriculum. Course numbers separated by a comma may be taken for one semester and the credit applied as a complete unit.

Freshman courses are numbered 1 to 49, sophomore courses from 50 to 99. Courses numbered 100 and above are open only to students who qualify for studies in the upper biennium.

The divisions are:

I. THEOLOGY, RELIGION, AND COGNATE STUDIES
II. SCIENCE AND MATHEMATICS
III. SOCIAL STUDIES
IV. EDUCATION
V. LANGUAGE AND LITERATURE
VI. MUSIC AND ART
VII. APPLIED ARTS
VIII. BUSINESS AND SECRETARIAL SCIENCE

DIVISIONS OF INSTRUCTION

I

THEOLOGY, RELIGION, AND COGNATE STUDIES

WALTER F. SPECHT, *Chairman*

J. CECIL HAUSSLER — EDWARD NACHREINER

NORVAL F. PEASE — *WILBER ALEXANDER

ROYAL SAGE

The objectives of this department are these: to foster in students a sense of personal responsibility to God; to lead them into a clear understanding and appreciation of the fundamental doctrines of the church and to an articulate expression of Christian faith; to develop in students ability and spiritual techniques for participation in the organized work of the church, either as official workers or as laymen; to train them to participate in the building of a Christian community, to meet the spiritual, moral, social, and physical needs of men and women everywhere, and to carry the gospel to all the world; to ensure a sound basis for graduate study.

Theology Major Requirements: 42 hours, of which a minimum of 20 must be in the upper biennium. Information concerning required courses, cognates, and the fifth year at the Seminary is given in the Special Curriculums section of this Bulletin. All those desiring recommendation for ministerial internships must major in Theology.

Religion Major Requirements: 30 hours, of which a minimum of 18 hours must be in the upper biennium. Required courses: Religion 71 or 105; 72 or 106; 51, 52 (or 151, 152); 56 or 115; 109 or 110; 161 or 162. A maximum of 4 hours in applied theology and 6 hours in religious history will be counted towards a major. Required cognates: Religious history 141 or 142; elective religion, 3 hours. Recommended electives: Any courses offered in the Theology and Religion Division; Biology 182; History 103, 104; Education 101 and 107; English 160; Speech 131 and 132; Secretarial Science 5 or 6.

Religion Minor Requirements: 18 hours, including the basic requirements in religion, and Religion 56 or 115. A minimum of 9 hours must be in the upper biennium. A maximum of 4 hours in applied theology or religious history may apply.

RELIGION

1, 2. LIFE AND TEACHINGS OF JESUS

A study of the teaching principles, methods of labor, and analysis of the teachings and miracles of Jesus with their application to present-day conditions and needs. Four Hours

25. INTRODUCTION TO RELIGION

A basic introduction to the fundamental concepts of religious faith and practice, including a study of the purpose and nature of the Bible; the development of the redemption theme in the several books of Scripture, and aims, methods, and tools of Bible study. Offered for students with less than two units of secondary credit in religion, and for others by advisement. Two Hours

* On leave, 1956-57.

51, 52. BIBLE DOCTRINES
A series of studies on the fundamentals of the Seventh-day Adventist faith, with particular emphasis on Christ and His work in relationship to all other tenets of faith as "the great truth around which all other truths cluster." Four Hours

56. SPIRIT OF PROPHECY
A creative study of the prophetic gift in its operation in the church, and the relation of its truths, principles, and standards to life problems. For non-theology students only. Two Hours

71. PROPHETIC INTERPRETATION I
The historical and prophetic study of the book of Daniel, tracing the rise and fall of world empires until the final establishment of God's kingdom on earth, with special emphasis on the atonement, judgment, and return of our Lord. Credit not allowed for this course and 105. Two Hours

72. PROPHETIC INTERPRETATION II
A study of the Revelation in which the whole Bible is gathered together and made to focus on Jesus Christ, His church being seen in its conflict with the forces of evil and apostasy through the ages and in its ultimate triumph. Credit not allowed for this course and 106 or 132. Two Hours

105. DANIEL
An advanced study of Daniel, the objections of and answers to the critics of the Book of Daniel, and particular emphasis and detailed study of the prophetic parts of Daniel. Credit not allowed for this course and 71. Two Hours

106. REVELATION
An advanced study, particularly applicable to those who are looking forward to the ministry, with emphasis upon eschatology. Credit not allowed for this course and 72 or 132. Three Hours

109, 110. OLD TESTAMENT PROPHETS
An analytical and exegetical study of the Hebrew prophets with careful attention to their historical setting and with special consideration of the eternal principles and practical values of their messages for today. (First semester: Prophets of the eighth century B.C.; second semester: Prophets of Judah, the exile, and the Restoration.) Six Hours

115. GIFT OF PROPHECY
A course dealing with the Gift of Prophecy in its relation to the origin and progress of the church and its work from its inception to the present time. Three Hours

132. ESCHATOLOGY
The intensive study and chronological organization of the closing events as presented in the Spirit of Prophecy. Credit not allowed for this course and 72 or 106. Two Hours

151, 152. FUNDAMENTALS OF FAITH
A study of fundamental Bible doctrines, particularly the five pillars of Adventist faith, and their relation to the great controversy and personal salvation. Four Hours

161, 162. NEW TESTAMENT EPISTLES
An exegetical study of the Pauline Epistles. The object is to train the student in correct analysis and interpretation of Scripture, with special emphasis on the great truths, historical background, and theological concepts. Six Hours

171-172. Philosophy of Religion

An examination of the history and development of religious philosophy with particular emphasis upon Christian philosophy and an evaluation of it. An examination of the Christian concepts of God, creation, nature of man, salvation, and immortality. Four Hours

APPLIED THEOLOGY

122. Pastoral Counseling*

Christian psychiatry applied to the techniques of counseling; the minister's responsibility in the application of therapy. For prospective ministers and social workers. Offered on alternate years. Two Hours

127. Homiletics

A thorough study of the methods of sermon construction with a detailed application of the analytical and synthetical methods to texts and chapters. Twenty methods in the formation of sermon outlines. Training in platform personality and delivery. Field work in the surrounding local churches. Three Hours

128. Homiletics

A careful consideration of ministerial ethics, the elements of worship and church organization. How to conduct such special services as baptisms, the Lord's Supper, weddings, funerals, ministering to the sick, etc. Three Hours

137, 138. Evangelism

A study of the fundamental principles of soul-winning in all of its phases. Special attention is given to planning, preparing, organizing, advertising, and conducting evangelistic meetings. Opportunity will be given for practical experience in an actual series of meetings under supervision. Members are eligible for this class only on the recommendation of staff members.

Prerequisites: Religion 51, 52 (or 151, 152) and 127. Four Hours

RELIGIOUS HISTORY

101. Archaeology*

A study of the technique of archaeology and its methods, and a survey of the excavations and discoveries in Bible lands with a view to making clear the setting of many of the incidents of the Bible; to provide additional light on and confirmation of the word of God. Two Hours

118. Missions and Mission Problems*

A study of world missions in prophecy and history. Special stress is given to the problems, methods, and policies of mission work under present-day conditions. Two Hours

134. Manuscripts of the Bible*

A course showing God's particular care in preserving manuscripts and versions of the Bible. The formation of the canons of the Old and New Testaments, translations, and revisions of the Bible constitute the chief fields of study in this course. Two Hours

141, 142. History of the Christian Church

The development of the Christian church with emphasis upon the story of the true church, the rise and development of the Papacy, the Protestant Reformation, with the subsequent break-up of Protestantism, and the origin of modern denominations. Six Hours

BIBLICAL LANGUAGES

Minor Requirements: 20 hours, of which a minimum of 6 must be in the upper biennium. Before enrolling in Greek courses numbered 100 or above, a student must have completed 12 to 14 hours or the equivalent in that language

7-8. Beginning New Testament Greek

A study of the elements of the Greek language in the vernacular koine of the first century, A.D.; readings from the Gospel and Epistles of John. Eight Hours

65-66. Intermediate New Testament Greek

A course in translation and grammatical interpretation of selected readings from the Gospels, the Apocalypse, and the Acts of the Apostles. Further study of the syntax, vocabulary, and Greek idiom of the New Testament. Six Hours

145. Thessalonians and Corinthians*

Reading and exegetical study of the Greek text of the leading passages of these great letters with special attention to the historical, grammatical, and textual questions involved. Three Hours

146. Galatians and Romans*

Reading the exegesis of the Greek text with emphasis upon the textual, syntactical, and historical questions involved. Three Hours

149. Textual Criticism of the New Testament*

A study of the materials, methods, and history of New Testament textual criticism, with practical exercises using microfilms and facsimiles of manuscripts. Three Hours

155, 156. Beginning Hebrew

An introduction to the elements of the Hebrew language; readings from the book of Genesis. Six Hours

158. General Epistles*

An exegetical study of the Greek text of the epistles of James, Peter, Jude, and John with attention to the historical, syntactical, and textual problems involved. Three Hours

CURRICULUM FOR THEOLOGY MAJOR

FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
Beginning New Testament Greek (Biblical Languages 7-8)	4	4
Freshman English (English 1-2)	3	3
General Psychology (Education 5)		3
Applied Arts	2	2
History of Western Civilization (History 1)	3	
Speech	2	2
Freshman Physical Education (Physical Education 7, 8)	½	½
	16½	16½

SOPHOMORE YEAR

Bible Doctrines (Religion 51, 52)	2	2
Intermediate New Testament Greek (Biblical Languages 65-66)	3	3
General Education Basic Science (Science 63, 64)	4	4
Literature	2	2
American History and Institutions (History 91, 92)	3	3
Electives	2	2
Physical Education	½	½
	16½	16½

JUNIOR YEAR

Homiletics (Applied Theology 127, 128)	3	3
New Testament Epistles (Religion 161, 162)	3	3
History of the Christian Church (Religious History 141, 142)	3	3
Gift of Prophecy (Religion 115)	3	
Applied Health Principles (Health 113)	2	
Electives		5
Fine Arts (113, 114)	2	2
	16	16

SENIOR YEAR

Old Testament Prophets (Religion 109, 110)	3	3
Daniel and Revelation (Religion 105, 106)	2	3
Philosophy of Religion (Religion 171, 172)	2	2
Evangelism (Applied Theology 137, 138)	2	2
Speech	2	
Electives	5	6
	16	16

CURRICULUM FOR RELIGION MAJOR

FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
Freshman English (English 1-2)	3	3
Beginning Language (Not applicable to those who present two units of language from the secondary level of the one chosen.)	3	3
History of Western Civilization (History 1, 2)	3	3
Applied Arts	2	2
Speech	2	2
Freshman Physical Education (Physical Education 7, 8)	½	½
	15½	15½

SOPHOMORE YEAR

Religion (51, 52 or 71, 72)	2	2
Intermediate Language	3	3
General Psychology (Education 5)	3	
General Education Basic Science (Science 63, 64)	4	4
American History and Institutions (History 91, 92)	3	3
Electives	1	4
Physical Education	½	½
	16½	16½

JUNIOR YEAR

New Testament Epistles (Religion 161, 162)		3
Gift of Prophecy (Religion 115)	3	
Literature	2	2
Fine Arts	2	2
Electives	9	9
	16	16

SENIOR YEAR

History of the Christian Church (Religious History 141)	3	
Old Testament Prophets (Religion 110)		3
Daniel and Revelation (Religion 105, 106) or Fundamentals of Faith (Religion 151, 152)	2	2-3
Applied Health Principles (Health 113)	2	
Electives in Maior Concentration	2	2
Electives	7	8-9
	16	16

11

SCIENCE AND MATHEMATICS

JULIAN L. THOMPSON, *Chairman*

Biology

DONALD M. BROWN
LLOYD E. DOWNS
ELMER WIDMER

Physics

JULIAN L. THOMPSON
LESTER H. CUSHMAN
*JAMES RIGGS

Chemistry

WILLIAM D. LEECH
LUELLA L. KRETSCHMAR
H. RAYMOND SHELDEN

GENERAL EDUCATION BASIC SCIENCE

These are the science courses which should normally be chosen by the student not intending to make any natural science his field of major concentration. Students enrolling in these courses will be assigned to either the biological or physical science section the first semester and the alternate section the second semester.

63. NATURAL SCIENCE: PHYSICAL
A study of the earth, the characteristics of its surface and its resources of materials and energy in relation to the rest of the known universe. Offered both semesters. Four Hours

64. NATURAL SCIENCE: BIOLOGICAL
A study of the physiology and function of various types of living organisms with particular reference to man and his environment. Offered both semesters. Four Hours

BIOLOGY

The objective of this department is to use its facilities to achieve an understanding of nature and natural law. The courses are designed to stress scientific methods and disciplines in reaching rational and logical conclusions and to provide offerings from which to choose for personal enrichment or for high professional attainment. The student is motivated through the impelling attraction of learning about living things. Along with the teacher, he learns to appreciate the mystery of life, while his attention is turned to the Author of life.

Major Requirements: 30 hours. Required courses are: 11, 15, 58, 153, 182 (or 185). In addition to these basic courses the student may choose additional courses to make a field of concentration in plant science, zoology, or general biology but must include at least eight additional upper biennium electives to complete the 30 hours.

Electives for any combination must have the approval of the head of the department.

Cognate requirements: Chemistry 5-6 and either Chemistry 113-114 or Physics 51-52 (both are highly desirable, as is also Chemistry 134 and 155-156).

* On leave, 1956-57.

GENERAL BIOLOGY

Students planning graduate work in biology may need additional hours of undergraduate work in biology and chemistry.

Biology majors should take German or French to meet the language requirement.

Courses 5-6 cannot apply on a major.

Minor Requirements: 18 hours. The student may choose one of the following groups of required courses: *Group* 1. Biology 11, 12 (or 15, 16); 8 or 58, plus 6 hours from the upper biennium. *Group* 2. Biology 5-6; 8 or 58, and 64 plus 4 hours from the upper biennium.

Electives for the minor must have the approval of the head of the department.

COURSES

Courses 8, 51, 64, 182 and 185 may be taken by the general college student without prerequisite.

8. MICROBIOLOGY

A study of microorganisms for general students. Includes the study of bacteria, yeasts, molds and pathogenic protozoa, rickettsia and viruses. Special emphasis is given to the relation of bacteria to health and disease. Laboratory: three hours each week. Four Hours

51. NATURE STUDY

An introductory course in nature study in which the student learns to appreciate a variety of plant and animal forms in their natural state. Helpful to prospective teachers and others who wish an introduction to the subject. Three seventy-five minute class periods and two three-hour laboratory periods each week. *Summer only.* Two Hours

64. NATURAL SCIENCE

(See General Education Basic Science 64, page 44.) Cannot apply on a biology major. May apply on a minor. Four Hours

151. FIELD BIOLOGY

An advanced course in field nature study in which the student learns to study, collect, and appreciate a large variety of plant and animal forms in their natural habitats. Technique in identifying and preserving all forms is taught. Three seventy-five minute class periods and two three-hour laboratory periods each week.

Prerequisite: 11, or 15 or equivalent. *Summer only.* Two Hours

153. GENETICS

A study of the true principles of heredity and variation and their causes as demonstrated by animal and plant breeding.

Prerequisites: 11 or 15 or equivalent. Three Hours

155. CYTOLOGY*

A detailed study of plant and animal mitosis and meiosis to show the relation to genetics and cytogenetics with emphasis in the laboratory on techniques for the study of plant and animal chromosomes. Laboratory: three hours each week.

Prerequisites: 11 and 12 (or 15 and 16) and 153. Three Hours

162. Bio-Ecology*

A study of interrelations of plants and animals in their life processes and their reaction to the environment. Field trips constitute the major portion of the laboratory work in the course.

Prerequisites: 11 and 12 and/or 15 and 16 or equivalent.

Three hours

165. Microtechnique

Preparation, mounting, and staining of plant and animal tissues on slides for microscopic study. Laboratory: six hours each week.

Prerequisites: 11 and 12 (or 15 and 16) or equivalent. Three Hours

168. Advanced Microtechnique*

The preparation of slides for use in teaching and study. The student may concentrate in either plant or animal technique. Laboratory: six hours each week.

Prerequisites: 165 or equivalent. Two Hours

182. Philosophy of Science

A survey of the basic philosophies of sciences with consideration of the origin and distribution of species. Three Hours

185. History and Literature of Biology

An historical study of the development of the science and the literature of biology, including the step-by-step advancement of modern concepts of biology and the evolution of the scientific method and the scientific paper. Three Hours

199. Projects and Topics in Biology

Experimental and library study of a selected problem of limited scope may be arranged with the head of the department. Regular conferences will be arranged with the head of the department and the instructor concerned. May or may not involve original research. Limited to upper division biology majors with a minimum over-all grade point average of 1.5 and of 2.0 in the field of biology.

One or Two Hours

PLANT SCIENCE

Course 11 may be taken by the general college student without prerequisite.

11, 12. General Botany

The fundamentals of plant life as studied through the structure and function of typical forms. The principal groups of the entire plant kingdom are studied and compared. The first semester is prerequisite to the second. Laboratory: three hours each week. Eight Hours

58. General Bacteriology

A basic course in bacteriology for students concentrating in science. Designed to broaden the student's view of life and his understanding of the organisms contributing to decay, fermentation, health, disease, and the biological balances in nature. Laboratory: three hours each week.

Prerequisites: 11 or 15 or equivalent; Chemistry 5-6 desirable.

Four Hours

121. PLANT PHYSIOLOGY

A study of plant processes with special emphasis on the processes of osmosis, diffusion, photosynthesis, respiration, and mineral nutrition. Laboratory: three hours each week.

Prerequisites: 11 or equivalent. Three Hours

123. SANITARY BACTERIOLOGY

Theory and practice in the bacteriology of milk, food, water, and sewage. Standard public health techniques and procedures are emphasized. Laboratory: three hours each week.

Prerequisite: 8 or 58 or equivalent. Three Hours

132. SYSTEMATIC BOTANY*

Identification and classification of flowering plants in the local area. Emphasis is on collecting, preserving, and field identification. Laboratory: three hours each week.

Prerequisites: 11 and 12 or equivalent. Three Hours

137. PLANT ANATOMY AND MORPHOLOGY*

A study of the microscopic anatomy of plant tissues with emphasis on their origin and development. Laboratory: three hours each week.

Prerequisites: 11 and 12 or equivalent. Three Hours

145. PLANT PATHOLOGY

A study of fungi with particular reference to those plant diseases of economic importance. Two hours lecture and three hours laboratory each week.

Prerequisites: 11, 8 or 58 or equivalent. Three Hours

ZOOLOGY

Courses 5-6, 15 may be taken by the general college student without prerequisite.

5-6. ANATOMY AND PHYSIOLOGY

A course for the general college student. Includes the study of the structure and function of the skeleton, the muscles, and the organ systems of the human body, correlated in the laboratory by the dissection of the cat. First semester is prerequisite to the second. First semester: two class hours and three laboratory hours per week; second semester: three class hours only. (Not offered in summers.) Six Hours

15, 16. GENERAL ZOOLOGY

A study of the structure and function of animal organisms. Representative forms in invertebrates and vertebrates of the principal groups of animals are studied and compared. First semester is prerequisite to the second. Laboratory: three hours each week. Eight Hours

74. MAMMALIAN ANATOMY

A laboratory course in which a detailed dissection of a large mammal is performed to teach the anatomy and organ systems. Laboratory: six hours each week.

Prerequisites: 15 or equivalent. Two Hours

103. Comparative Embryology
A study of gametogenesis, fertilization, cleavage, and early development of representative chordates. Laboratory: three hours each week.
Prerequisites: 15 or equivalent. Three Hours

124. Comparative Anatomy
A study of the morphology of the vertebrates. Laboratory: six hours each week.
Prerequisites: 15 or equivalent. Four Hours

136. Entomology
Insect biology and identification with emphasis on its economic importance. Field work and collections are required. Laboratory: three hours each week. *Summer only.*
Prerequisite: 15 or equivalent. Three Hours

140. Ornithology *
Field and laboratory identification of birds with special emphasis on the Pacific States avifauna. Lectures include their taxonomy, life histories, characteristics of songs, migration, habitats, and special modifications. Field and laboratory work combined. Laboratory: three hours each week. Three Hours

144. Histology
A descriptive analysis of normal vertebrate tissues and organs, including those of man. The microscopic identification and stained sections is emphasized in the laboratory. Laboratory: six hours each week.
Prerequisites: 15 or equivalent. Four Hours

147. Parasitology
The study of the common parasites of man and domestic animals. Laboratory each week consists of recognition studies of many typical forms. Laboratory: three hours each week.
Prerquisites: 15 or equivalent. Three Hours

157,158. Human Physiology I and II
A study of the principles of animal function with special attention to processes relating to the metabolism of man.
Prerequisites: 11, 15, or 64. Four Hours

CHEMISTRY

In harmony with, and in the spirit of the aims and objectives of the College, the Chemistry Department seeks to equip its pupils for participation in the fields of chemistry, chemical engineering, the health sciences, the teaching of chemistry, and the pursuing of graduate work.

To the non-chemistry major the department offers the vigorous discipline of the chemistry courses, that he may better understand and appreciate the world in which he lives.

Major Requirements: The chemistry major must meet the general college requirement in addition to 24 to 32 hours of chemistry in the upper biennium and the approval of the Department of Chemistry.

Required courses: Chemistry 5-6, 51, 115-116, 155-156, and 199.

Cognate requirements: Mathematics 77, 78, Physics 51-52.

Recommended: Biology 11-12 or 15-16 or 11 and 15, Physics 151, 152, German.

Minor Requirements: 24 hours. Required courses: Chemistry 5-6, 50, 115-116, and the approval of the chairman of the department.

1-2. INTRODUCTORY CHEMISTRY

A beginning course in the practical and theoretical aspects of chemistry. Applies on the basic science requirement for certain specific curricula. One additional drill period per week will be required for all pupils who are not making a grade of C or above by the end of the first 6 weeks of each semester. Laboratory: one three-hour period each week. Six Hours

5-6. GENERAL CHEMISTRY

A standard freshman course in general college chemistry. Stresses the fundamental principles and theories of chemistry with emphasis on practical aspects. A study of Qualitative Analysis using semimicro methods is included in the second semester's work. Three one-hour lectures each week. Laboratory: two three-hour periods each week. Prerequisite: High school chemistry or physics or Chemistry 1. (Credit cannot be earned in both Chemistry 1-2 and 5-6.) Ten Hours

51. QUANTITATIVE ANALYSIS

Designed to acquaint the student with the theory, methods, and calculations of gravimetric and volumetric analysis. Proficiency in the use of the slide rule will be helpful. Laboratory: two three-hour periods each week.
Prerequisites: Chemistry 5-6 and Mathematics 5 or equivalent.
Four Hours

61. QUALITATIVE ANALYSIS

Consideration of methods, theories, and problems involved in qualitative procedure. Inorganic qualitative analysis of the common cations and anions in solutions, salt mixtures, alloys. Semimicro methods stressed. Laboratory: two three-hour periods each week. Three Hours

71. ELEMENTARY ORGANIC CHEMISTRY

A course designed to meet the needs of majors in Home Economics, Agriculture, and other non-chemistry fields. Three one-hour lectures and one 3-hour laboratory each week.
Prerequisite: Chemistry 1-2 or 5-6. Four Hours

113-114. ORGANIC CHEMISTRY

A systematic study of the fundamental principles and reactions of organic chemistry, with application to the living processes, industry, and society. This course is intended primarily for home economic, dietetic, forestry, and bacteriology majors. It may not apply on the major in chemistry programs. Three one-hour lectures each week. Laboratory: one three-hour period each week.
Prerequisite: Chemistry 5-6. 51 recommended. Eight Hours

115-116. ORGANIC CHEMISTRY

A systematic development of the fundamental principles of the chemistry of carbon compounds and their reactions. A more comprehensive presentation of the subject than offered in 113-114. Laboratory work is designed to train the student in laboratory techniques of the organic chemist. This course, intended primarily for chemistry and chemical engineering majors, is a basis for teaching and for scientific research. Three one-hour lectures each week. Laboratory: two three-hour periods each week.
Prerequisites: Chemistry 5-6. 51 recommended. Ten Hours

130. ADVANCED QUANTITATIVE ANALYSIS

A continuation of Chemistry 51 emphasizing the principles of physical chemistry which serve as a basis for analytical processes. One hour lecture and two three-hour laboratory periods each week.
Prerequisite: 51. Three Hours

132. Chemical Microscopy

A study of the polarizing microscope and its accessories. Micrometric measurements, examination of fibres and study of optical crystallographic properties with applications to chemical analysis. Two lectures and one laboratory each week.
Prerequisites: 51; and 115. Three Hours

134. Biochemistry

Discussion of select topics designed to familiarize the student with the nature of the reactions which take place in living tissues and with the function of enzymes, vitamins, and hormones in controlling these reactions. This course deals primarily with Biochemistry as it is related to plants and animals. Three one-hour class periods each week. Laboratory: one three-hour period each week. Four Hours

141. Organic Synthesis

A course designed to help fit the student for research. Study is given to such topics as literature research, distribution, extraction, purification and special techniques. Laboratory work consists of the preparation and purification of a number of typical organic compounds. Laboratory: one three-hour period each week.
Prerequisite: 115-116. Two Hours

144. Qualitative Organic Analysis

A course in the classification and identification of organic compounds and mixtures. Laboratory: one three-hour period each week.
Prerequisite: 115-116. Two Hours

155-156. Physical Chemistry

A study of the fundamental physico-chemical concepts and laws. Three one-hour lectures each week. Laboratory: one three-hour period each week.
Prerequisites: 5-6, Mathematics 77, 78, Physics 51-52. Eight Hours

161. Chemical Literature

A supervised approach to the literature of chemistry. Open to chemistry majors. One Hour

199. Projects and Topics

Individual work in special fields. Open only to seniors.
Two-Three Hours

PHYSICS

Fostering an intellectual curiosity which will extend through the students' post-college years, imparting an attitude of open-minded consideration of controversial questions, and building an appreciation of the part played by physics in everyday living and in international affairs constitute the general objectives of the department. For the physics major there are the additional objectives of adequate preparation for professional training or for graduate work in physics, adequate factual preparation for secondary teaching in physics, preparation for employment under the Civil Service classification of junior scientist, physicist, or similar grade in private industry.

Major Requirements: 21 hours upper biennium. Required courses: Physics 51-52; 108; 117; 151, 152; 199 and Mathematics 170. Required cognate: Chemistry 5-6 (General Chemistry). Chemistry 155-156 (Physical Chemistry) is recommended.

Minor Requirements: 18 hours, of which a minimum of 8 must be in the upper biennium. Required courses: Physics 51-52 and 151-152.

15. RADIO I*

(May not be applied on a major or minor in Physics. See Applied Arts section for description of course.) Three Hours

16. RADIO II*

(May not be applied on a major or minor in Physics. See Applied Arts Section for description of course.)
Prerequisite: 15 or equivalent. Three Hours

21. PHYSICS OF FLIGHT*

Basic physical principles for the pilot: engines, aircraft aerodynamics, meteorology. (May not be applied on a major or minor in Physics.) Two Hours

26. ELEMENTARY ELECTRONICS*

Introduction to direct and alternating current circuits as applied to electronic devices. Laboratory consists of the quantitative study of simple electrical and electronic circuits. Laboratory: three hours each week. Three Hours

51-52. GENERAL PHYSICS

Mechanics, heat, sound, electricity and light, modern physics. Laboratory: three hours each week.
Prerequisites: Mathematics 5, 8 and high school chemistry or physics. Eight Hours

53, 54. PROBLEMS IN PHYSICS

A problem-solving course on the General Physics level for engineering students and others desiring additional work at this level. Must be taken concurrently with 51, 52. Two Hours

106. HEAT AND THERMODYNAMICS*

Heat transmission, kinetic theory, change of state, specific heats, elementary thermodynamics. Laboratory: three hours each week.
Prerequisites: 51-52 and Mathematics 77, 78. Four Hours

108. ELECTRICITY AND MAGNETISM

Electric and magnetic fields; circuits having resistance, inductance and capacitance. Laboratory: three hours each week.
Prerequisites: 51-52 and Mathematics 77, 78. Four Hours

117. LIGHT

Refraction and reflection, wave motion, diffraction and interference, polarization. Laboratory: three hours each week.
Prerequisites: 51-52 and Mathematics 77, 78. Four Hours

151, 152. ATOMIC AND NUCLEAR PHYSICS

A study of atoms and sub-atomic particles and radiation and their relation to the ultimate structure of matter. The first semester is a prerequisite to the second.
Prerequisites: 51-52 and Mathematics 77, 78. Physics 108 and 117 recommended. Six Hours

161, 162. ELECTRONICS**

A study of electron tubes and their associated circuits, with applications. The first semester is a prerequisite to the second. Laboratory: three hours each week.
Prerequisites: 51-52, 108 and Mathematics 77, 78. Six Hours

170. Analytical Mechanics*
An introduction to the methods of mathematical physics: statics, kinematics and dynamics of particles and systems of particles; introduction to vector notation. May also be applied on mathematics minor.
Prerequisites: 51-52 and Mathematics 109. Three Hours

177. Advanced Physical Measurements**
Formal laboratory work in upper division physics. May be repeated in a different subject for credit. Laboratory: three hours each week.
Prerequisites: An upper biennium course in the same field and consent of the department head. One Hour

199. Projects and Topics in Physics
Experimental and library study of a specific problem under the direction of a staff member. Limited to upper biennium physics majors and minors. One-two Hours

MATHEMATICS

Minor Requirements: 18 hours, of which a minimum of 6 must be in the upper biennium. Required course: Mathematics 77, 78.

A, B. Elementary Mathematics
A course for those who lack algebra, geometry, or both on the secondary level. This is an integrated presentation of the basic concepts of algebra and geometry. A student lacking either subject should take the first semester; if both are lacking, two semesters are required. The first semester is a prerequisite to the second. (Not counted toward the Bachelor's degree.) Four Hours

5. Introductory College Algebra
Brief review of high school algebra with additional topics of particular interest to science students. Not counted toward a mathematics minor.
Prerequisite: High school algebra or course A, B. Three Hours

8. Mathematical Preparation for Physical Science
Plane trigonometry and a brief study of plane analytical geometry.
Prerequisite: 5 or equivalent. Three Hours

51. Advanced Algebra*
Simultaneous quadratic equations; determinants, binomial theorem; progressions; permutations; combinations.
Prerequisite: 5 or equivalent. Three Hours

77, 78. Calculus I and II
Differentiation and integration of algebraic, trigonometric, exponentia and logarithmic functions, with applications to geometry and physics; introduction to ordinary differential equations. The first semester is prerequisite to the second.
Prerequisite: 8 or equivalent. Eight Hours

105. Theory of Equations*
Elementary theory of algebraic equations; determinants.
Prerequisite 51. Two Hours

109. Differential Equations
Methods of solution of ordinary differential equations.
Prerequisites: 77, 78. Three Hours

110. Calculus III*
More advanced topics in calculus and an introduction to ordinary differential equations.
Prerequisite: 77, 78. Three Hours

170. Analytical Mechanics (See Physics section for description of course.) Three Hours

CURRICULUM FOR BIOLOGY MAJOR

FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
Beginning German or French (3-4)	3	3
A student who has two secondary units of credit in the required language may take Intermediate Language (53-54), other required subjects, or enrichment electives in place of Beginning Language.		
Freshman English (1-2)	3	3
Algebra (Mathematics 5)	3	
Mathematical Preparation for Physical Science (Mathematics 8)		3
General Botany (11)	4	
General Zoology (15)		4
Freshman Physical Education (7, 8)	½	½
	15½	15½

Summer: By taking summer school or extension credit in Fine Arts, Applied Arts, Literature, Religion, or Science, the student can make room for desirable electives or extra upper division hours in his major.

SOPHOMORE YEAR

Prophetic Interpretation (Religion 71, 72)	2	2
General Bacteriology (58)		4
History of Western Civilization (1, 2)	3	3
Intermediate Language (53-54)	3	3
General Chemistry (5-6)	5	5
Biology elective	3 or 4	
Physical Education	½	½
	15½ or 16½	17½

Summer: General Physics (51-52), 8 hours.

JUNIOR YEAR

Fundamentals of Faith (Religion 151, 152)	2	2
Organic Chemistry (113, 114)	4	4
American History and Institutions (91, 92)	3	3
Genetics (General Biology 153)	3	
General Psychology (5)		3
Fundamentals of Speech (5-6)	2	2
Applied Arts (Agriculture 7, 8, 11, 27, 52, 55, 62, 68)	2	2
	16	16

SENIOR YEAR

Philosophy of Science (General Biology 183) or History and Literature of Biology (184)	3 or	3
Human Physiology (Zoology 157, 158) or elective	2	2
Biochemistry (134) or Physical Chemistry (155-156) (Calculus is prerequisite to the latter)	4	4
Biology electives	3 or 4	3 or 4
Western World Literature (English 113, 114)	2	2
Introduction to Fine Arts (General Education Fine Arts 57, 58)	2	2
Reading German or French (143-144)	1	1
	15-18	15-18

CURRICULUM FOR CHEMISTRY MAJOR

FRESHMAN YEAR	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
Freshman English (English 1-2)	3	3
History of Western Civilization (History 1, 2)	3	3
Algebra (Mathematics 5)	3	
Mathematical Preparation for Physical Science (Math. 8)		3
General Chemistry (Chemistry 5-6)	5	5
Freshman Physical Education (Physical Education 7, 8)	½	½
	16½	16½

Beginning German, 6 hours.

If the student does not have two secondary units of college entrance credits in German, he will need to take, in the summer between the freshman and sophomore years, 6 hours of Beginning German or some other six required hours to make room for Beginning German during the regular year.

SOPHOMORE YEAR		
Intermediate German (German 65-66)	3	3
Calculus I and II (Mathematics 77, 78)	4	4
Quantitative Analysis (Chemistry 51)	4	
Health Principles (Health 59)		2
General Zoology (Biology 15, 16)	4	4
Social Science		3
Physical Education	½	½
	15½	16½

JUNIOR YEAR		
Religion (51, 52 or 71, 72)	2	2
Organic Chemistry (Chemistry 115-116)	5	5
General Physics (Physics 51-52)	4	4
American History and Institutions (History 91, 92)	3	3
Reading German (German 143-144)	1	1
Applied Arts	2	2
	17	17

SENIOR YEAR		
Atomic and Nuclear Physics (Physics 151, 152)	3	3
Physical Chemistry (Chemistry 155-156)	4	4
Biochemistry (Chemistry 134)		4
Projects and Topics (Chemistry 199)	2	
Literature (Upper Division)	2	2
Fine Arts (Upper Division)	2	2
Religion (Upper Division)	2	2
	15	17

Note: This curriculum as outlined above meets all requirements for entrance to a school of medicine except two hours of vertebrate embryology (Zoology 103 at La Sierra College), room for which can be made by the summer school adjustment.

CURRICULUM FOR PHYSICS MAJOR

FRESHMAN YEAR	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
Freshman English (English 1-2)	3	3
History of Western Civilization (History 1-2)	3	3
Algebra (Mathematics 5)	3	
Mathematical Preparation for Physical Science (Mathematics 8)		3
General Chemistry (Chemistry 5-6)	5	5
Physical Education 7, 8	½	½
	16½	16½

SOPHOMORE YEAR		
Religion (Religion 51, 52 or 71, 72)	2	2
Health Principles (Health 59)	2	
General Psychology (Education 5)		3
Beginning German (German 3, 4)	3	3
(Intermediate German if two secondary units in German are presented)		
General Physics (Physics 51, 52)	4	4
Calculus I and II (Mathematics 77, 78)	4	4
Physical Education	½	½
	15½	16½

Note: Engineering students must take Physics Problems (Physics 53, 54) concurrently with Physics 51, 52.

JUNIOR YEAR		
American History and Institutions (History 91, 92)	3	3
Fundamentals of Speech (Speech 5, 6)	2	2
Intermediate German (German 65, 66) (Electives if Intermediate German was taken in the sophomore year)	3	3
Descriptive Geometry and Technical Drawing (Building Construction 41, 42)	2	2
Light (Physics 117)	4	
Electricity and Magnetism (Physics 108)		4
Differential Equations (Mathematics 114)		3
Calculus III (Mathematics 110)	3	
	17	17

SENIOR YEAR		
Religion (Religion 151, 152 unless 51, 52 taken in sophomore year)	2	2
English Literature	2	2
Reading German (German 143, 144)	1	1
Introduction to Fine Arts (General Education Fine Arts 57, 58)	2	2
Atomic and Nuclear Physics (Physics 151, 152)	3	3
Heat and Thermodynamics (Physics 106)	4	
Analytical Mechanics (Physics 170)		3
Project in Physics (Physics 199)	2	
	16	13

III

SOCIAL STUDIES

Wilfred J. Airey, *Chairman of History Department*
Charles B. Hirsch, *Chairman of Social Science Department*
Frederick G. Hoyt
*Ralph Koorenny

The Division of Social Studies directs the student to current problems in the light of social experience. It concerns itself with the field of human relationships, both past and present, with an emphasis on the study of political, social, economic and other cultural problems in preparation for intelligent citizenship and leadership. Courses offered are basic for professional careers in business and economics, law, medicine, public relations, social work, teaching, and other fields.

HISTORY

History Major Requirements: 32 hours, of which a minimum of 20 hours should be in the upper biennium (which may be reduced to 15 if the student completes another major or minor); 12 hours of cognate courses are to be selected in consultation with the head of the department. Required courses: History 1, 2 and 91, 92.

History Minor Requirements: 18 hours, of which a minimum of 6 must be in the upper biennium. Required courses: History 1, 2; 91 and/or 92, or equivalent. Only 3 hours of History 141, 142 may apply on a minor.

1, 2. History of Western Civilization

A study of the development of western civilization from antiquity to the present. Emphasis is placed on the political, economic, religious, social, and cultural institutions and ideas as they affected man's development. Six Hours

55, 56. United States Constitution (Constitutional History)
(See Political Science 55, 56.) Four Hours

91, 92. American History and Institutions

The social, cultural, political, and constitutional development of the United States and local government from the period of colonization to the present. This course fulfills the state requirement in American History, Constitution, and California Constitution. Six Hours

103, 104. History of Antiquity

The ancient kingdoms of the Near East, Egypt, Greece, and Rome, particularly as they relate to Bible history. Four Hours

105. Medieval Europe

A study of the developing institutions of early Western Europe from Constantine to the thirteenth century. Three Hours

107, 108. British Civilization *

England and the Empire to the present. Four Hours

* On leave, 1956-57.

111, 112. Western America and California *
The exploration and settlement of the American West. Statehood and progress in the western United States. The second semester emphasizes California History and government. Four Hours

125, 126. Europe Since 1914*
Europe from World War I to the present. Four Hours

127. American Colonial History *
A study of the institutions, life, thought, imperial control, and intercolonial relations, leading to the movement for independence of the English colonies in America. Three Hours

141, 142. History of the Christian Church
The Christian Church, the Papacy, and the Protestant Churches. Six Hours

151, 152. The Renaissance and Reformation *
An intensive study of the economic, literary, artistic, and religious developments of the period. Six Hours

157, 158. Europe, 1789 to 1914
Europe in revolution and transition, 1789-1914. Six Hours

161. Civil War and Reconstruction
The causes for, campaigns of, and results of the Civil War. Three Hours

163, 164. American Diplomatic Relations
Developments in American diplomatic history from the Revolution to the present, with emphasis on contemporary foreign affairs. Four Hours

165, 166. The Far East in World Affairs *
(See Political Science 165, 166.) Four Hours

191, 192. Readings in American or European History
This course is restricted to History majors with a minimum two-point average in their major. Students do special study in fields specified by the instructor. The student is expected to meet the instructor for regular conferences each week.
Prerequisite: Permission of the department. Two to Four Hours

SOCIAL SCIENCES

Social Science Major Requirements: 45 hours from the Division of Social Studies, with no less than 8 nor more than 18 hours in one field of concentration; a minimum of 20 hours must be in the upper biennium. Required courses: Geography 52; Political Science 57, 58; Sociology 61, 62; and Economics 188. This major is designed for students wishing to pursue a broad educational program with special emphasis on the social sciences.

Social Science Minor Requirements: 18 hours, of which a minimum of 8 must be in the upper biennium. No history courses may apply on this minor. Students should have at least 8 hours in one field of the social sciences.

Social Work: Students interested in this field should consult the Presocial Work outline in the Special Curriculums section of this Bulletin.

POLITICAL SCIENCE

55, 56. United States Constitution

A study of the development of the Federal Constitution from its early beginnings to 1860. The second semester considers the period from 1860 to the present time. Stress is placed on American institutions in their relation to the Constitution. The second half of this course (56) does not apply on state requirement. Four Hours

57, 58. National, State, and Local Government *

A study of the structure and functions of the national government of the United States. The first semester satisfies the state requirement in United States Constitution. The second semester covers the organization, politics, and administration of state and local governments, and also meets the state requirement for California Constitutional Government. Four Hours

131. World Politics

A study of the forces and conflicts operating in international relations and world affairs with special attention given to the foreign policies of the great powers considered from the historical, political, and economic viewpoint. Three Hours

132. Comparative Governments *

A comparative study of the backgrounds, constitutional organization, and activities of the government of England, France, Germany, and Russia. Three Hours

163, 164. American Diplomatic Relations (See History section for description of course.) Four Hours

165, 166. The Far East in World Affairs

The first semester gives particular emphasis to the study of the political organizations, social practices, and intellectual influences of the Far Eastern countries to the present. An analysis of contemporary internal and international relationships, colonialism, and imperialism is studied in the latter half of the course. Four Hours

167. Introduction to Political Theory * *

A survey of the main currents of political thought from Plato to the present time. Three Hours

169. Public Opinion and Propaganda *

(See Sociology 169.) Three Hours

SOCIOLOGY

61. Fundamentals of Sociology

An introductory course to survey, analyze, and define materials in the field of social processes, social changes, social forces, and the general relation of culture to society. Three Hours

62. Sociological Problems

A systematic treatment of the more important contemporary problems including juvenile delinquency, vice, alcoholism, and drug addiction, mental and physical deficiency, and other problems which may be especially prominent before our society at a particular period.
Prerequisite: 61, or permission of instructor. Three Hours

74. Marriage and the Family

A study of the factors involved in mate selection, courtship, marital discord and adjustment, and the role of the family in the American way of life.
Prerequisite: Fundamentals of Sociology, or General Psychology.
Two Hours

123, 124. Introduction to Social Welfare *

The first half of this course concerns itself with the history of social welfare and the underlying philosophy and principles of modern social work. The organization of social welfare agencies, federal-state-local relationships, and laws are discussed in the second half of the course. Volunteer work in some social agency is recommended.
Four Hours

169. Public Opinion and Propaganda *

A study of the problems and processes in the formation of public opinion and how public action may be organized through the use of propaganda and pressure groups. Three Hours

ECONOMICS

1-2. Principles of Economics

A study of the agricultural and industrial organization of production; labor organizations; the money and credit system; national income analysis; economic policies; comparison of economic systems.
Six Hours

123. Money, Banking, and Credit** (See Business section for description of course.) Three Hours

141. Current Economic Problems*

The significance and application of principles to current social and economic problems.
Prerequisite: 1-2. Three Hours

188. Elements of Statistics (See Business section for description of course.) Three Hours

PSYCHOLOGY

5. General Psychology

(See Education and Psychology section for description of course.)
Three Hours

101. Psychology of Adolescence

(See Education and Psychology section for description of course.)
Two Hours

107. Personality and Mental Hygiene

(See Education and Psychology section for description of course.)
Two Hours

121. Child Growth and Development

(See Education and Psychology section for description of course.)
Two Hours

GEOGRAPHY

52. Principles of Geography

A study of the mutual relationship between man and his physical environment, including an analysis of the various human-use regions to develop an understanding as to why such factors as man's food, clothing, shelter, work, and cultural attitudes vary according to his environment. Three Hours

CURRICULUM FOR HISTORY MAJOR

FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
Beginning Language	3	3
If a student has two units of foreign language among his college entrance credits and wishes to continue the same language in college, he may substitute intermediate language here or choose other electives.		
History of Western Civilization (History 1, 2)	3	3
General Psychology, Sociology, or Geography	3	
Health Principles (Health 59)		2
Applied Arts	2	2
Freshman English (1-2)	3	3
Freshman Physical Education (7, 8)	½	½
	16½	15½

SOPHOMORE YEAR

Intermediate Language	3	3
Religion (51, 52 or 71, 72)	2	2
American History and Institutions (History 91, 92)	3	3
American Literature or Speech	2	2
Natural Science (General Education Basic Science 63, 64)	4	4
Electives or Cognates	2	2
Physical Education	½	½
	16½	16½

JUNIOR YEAR

Language	1	1
Fine Arts	2	2
Religion	2	2
Speech or Literature	2	2
Major Concentration (Upper Division)	5	5
Electives and Cognates	4	4
	16	16

SENIOR YEAR

Major Concentration (Upper Division)	5	5
Electives and Cognates	11	11
	16	16

Students planning to teach history should minor in education.

CURRICULUM FOR SOCIAL SCIENCE MAJOR

FRESHMAN YEAR	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
Beginning Language	3	3
If a student has two units of foreign language among his college entrance credits and wishes to continue the same language in college, he may substitute intermediate language here or choose other electives.		
History of Western Civilization (History 1, 2)	3	3
Freshman English (English 1-2)	3	3
General Psychology	3	
Applied Arts	2	2
Geography		3
Freshman Physical Education (Physical Education 7, 8)	½	½
	16½	16½

SOPHOMORE YEAR		
Religion (51, 52 or 71, 72)	2	2
Intermediate Language	3	3
Natural Science (General Education Basic Science 63, 64)	4	4
Health Principles (Health 59)	2	
National, State, and Local Government (Political Science 57, 58)	2	2
Marriage and Family (Sociology 74)		2
Fundamentals of Sociology (Sociology 61)	3	
Sociological Problems (Sociology 62)		3
Physical Education	½	½
	16½	16½

JUNIOR YEAR		
Religion	2	2
Literature	2	2
Speech	2	2
Fine Arts	2	2
United States Constitution (55, 56)	2	2
Major Concentration (Upper Division)	5	5
Language	1	1
	16	16

SENIOR YEAR		
Major Concentration (Upper Division)	5	5
Electives or Minor	11	11
	16	16

Students planning on social service training should consult the department chairman for a recommended curriculum.

IV
EDUCATION

George T. Simpson, *Chairman*
Maybel Jensen
Doris H. Brown
R. D. Drayson
Donald E. Jacobs
Anna P. Edwardson
Mary W. Groome
William J. Napier
T. Howard Stockton

EDUCATION AND PSYCHOLOGY

The Department of Education has as its major purpose the preparation of teachers for elementary, intermediate, and secondary schools. The following courses provide for a selection by the student who is seeking to fulfill the general requirements for the major or minor in Elementary or Secondary Education as specifically stated for each department. General Psychology 5 is a basic requirement to all education and psychology courses except 61 and 162.

La Sierra College is accredited by the California State Board of Education to prepare candidates for the General Elementary Credential.

PSYCHOLOGY

5. General Psychology

A foundation course designed to help the student understand and explain the behavior of others and thereby be better equipped to predict and control his own life and influence the lives of others. (Not applicable toward an education major or minor.) Three Hours

101. Psychology of Adolescence

A course dealing with the most significant problems in adolescent development, with special emphasis upon the psychological principles that govern behavior. Two Hours

107. Personality and Mental Hygiene

A study of the constructive and preventive contributions of education to mental health and personal growth. Emphasis is placed on basic attitudes that influence behavior and on methods of working with these attitudes, individually and in groups, to develop more constructive behavior. Two Hours

114. Educational Psychology

A study of the physical, mental, emotional, and social growth and development of the child and the adolescent in society. A survey of the various psychological processes important to learning and its direction, with special emphasis on the significance of the principles of psychology in various teaching procedures. Three Hours

121. Child Growth and Development

A study of the physical, mental, social, and emotional development of the child from infancy through early adolescence together with an analysis of the scientific principles of child psychology, with emphasis upon the characteristics of childhood, the development of language, learning, and social behavior. Two Hours

144. THE EXCEPTIONAL CHILD
A study of the determinants, characteristics, problems and adjustments of children who deviate markedly from the norm in their mental, physical, emotional and social aptitudes, traits and tendencies. Educational methods to be used with deviate children are investigated and analyzed.
Prerequisite: 120 or permission. Two Hours

EDUCATION

61. PRINCIPLES OF EDUCATION
A survey of the basic principles of education. Three Hours

103. AUDIO-VISUAL METHODS AND MATERIALS
A course designed to acquaint the student with the various audio-visual materials as they affect learning. Development and analysis of materials of instruction and their presentation; operation and care of equipment. Two Hours

150. PRINCIPLES OF GUIDANCE
A course devised to emphasize principles, methods, organization, and aims in the educational, vocational, and civic-ethical-social guidance of students on the elementary and secondary level. Two Hours

155. EDUCATIONAL MEASUREMENTS
A study of the principles of educational measurement together with the use, evaluation, and interpretation of tests as they pertain to the elementary and secondary grades. Three Hours

156. SCHOOL ADMINISTRATION
A study of the general administrative problems applicable to elementary, junior academy, and secondary school. Finance, public relations, guidance, personnel, curriculum development, and the supervision of extracurricular activities. Three Hours

162. PHILOSOPHY AND HISTORY OF EDUCATION
The philosophy and history of sacred and secular educational writings. Emphasis is given to the concepts of representative educational thinkers as their philosophy applies to modern educational thought. (Not open to students with credit in 61.) Three Hours

164. EDUCATIONAL SOCIOLOGY
A study of significant sociological data, trends and principles which are applicable to educational policies and practice. Special emphasis is placed on relationships between the school and the community. Attention is given to the social backgrounds of school populations as a setting in which functional education becomes a factor in social change. An introductory course in Fundamentals of Sociology is recommended. Two Hours

ELEMENTARY TEACHER EDUCATION

Major Requirements: A concentration in Education of 37 semester hours in the upper biennium. (See the curriculum outline on page 65.) The basic requirements are the same as for a Bachelor of Arts degree except as indicated below. The four-year curriculum is divided into four areas: General Education, professional subjects in the major field of concentration, content courses in the areas of lesser concentration, and additional requirements necessary for an elementary credential. One lesser area of concentration of 18 semester hours is required in a teaching field; two or more such areas are strongly

recommended. Modern language is not required of students who have two units of college entrance credit in the same language and select English as an area of lesser concentration. Required courses: Psychology 120; Education 51, 55, 56; 61 or 162; 103; 113; 114; 125; 135; 136; 144; 155; and as directed teaching, 131, 132; 185, 186 (12 hours). Cognate required courses include art and music, the courses to be selected in consultation with the major professor.

Minor Requirements: 18 hours. Required courses: Education 113; 120; 135; 114; 131 or 132.

51. Arts and Crafts in the Elementary Classroom
Problems in constructive art and their interpretation in the unit method of organization. Displays for room environment are made appropriate to the social studies and other subject areas. Two Hours

52. Art Education
A study of the fundamental art principles as applied to the art of children. Teaching methods. Laboratory assignments in various media of a type suitable for grade school art. (See Visual Arts 52.) Two-Three Hours

55, 56. Introduction to Education (Teaching I)
An orientation course for future teachers. A study is made of the work of the teacher and the qualifications needed for teaching. Student activities include reading, discussion, observation, participation and evaluation of classroom activities. Required California statutory tests will be given in this course. Two Hours

113. Organization and Administration of the Elementary School
This course acquaints the prospective teacher with techniques in organizing and managing the modern elementary classroom. Attention will be directed to organization, grouping, pupil progress, classroom records, analysis and treatment of behavior problems, ethics, and community relationships. Three Hours

118. Music in the Elementary School
A study of the methods, materials and instructional aids for the teaching of music in the elementary school with attention to elementary choral and instructional (song flutes, rhythm band) work, use of the radio in music class. The development of fundamental skills and appreciations. (See Music 118.) Prerequisite: Music 1 or equivalent. Two Hours

125, 126. Elementary School Curriculum and Methods
A survey of the work of the elementary school in terms of activities, materials, and methods. The first semester emphasizes social studies (Bible, history, geography, and civics) and the second semester emphasizes language arts (reading, English, spelling, and handwriting). Four Hours

131, 132. Teaching II
Student teaching under the direction of an approved supervising teacher. Supplemented by conferences with the supervising teacher, and director of teacher education. No grade below a C is acceptable for credit in student teaching. Prerequisite: Satisfactory achievement in the standard school subjects. Four Hours

135. Reading in the Elementary School
A comprehensive consideration of the methods, materials, and instructional aids for teaching reading in the elementary school. Considerable time is given to children's literature. Daily observation and participation, for a semester, in the Demonstration School provides an opportunity for the analysis of individual and group reading problems. Three Hours

136. ARITHMETIC IN THE ELEMENTARY SCHOOL

A comprehensive consideration of the methods, materials and instructional aids for the teaching of arithmetic in the elementary school. Attention is given to making arithmetic learning a meaningful experience. Directed observation in this area is provided in the Demonstration School. The student is required to make a grade of B in subject matter. Two Hours

185, 186. TEACHING III †

Open only to seniors. The completion of at least one semester in residence. Each basic methods course must carry at least a grade of C for admittance to and continuance of student teaching. Long blocks of time for this course is necessary. The work is done under the direction of an approved supervising teacher. Supplemented by conferences with the supervising teacher, coordinator, and director of teacher education. One-Ten Hours

† At least two semester hours of student teaching must be completed under the supervision of La Sierra College by candidates for degrees, regardless of the amount of similar credit received elsewhere. A computed minimum of eight hours is required for recommendation for the General Elementary Credential.

SECONDARY TEACHER EDUCATION

Minor Requirements: Twenty hours, of which a minimum of 12 must be in the upper biennium. In electing courses for a minor in Secondary Education, the student is expected to meet the professional requirements of the state or organization in which he expects certification. This generally includes a minimum of 15 to 18 hours in professional education. Four hours of directed teaching are required. Required for the minor are courses: 165, 181, and 190. Recommended courses: 61 or 162; 70 or 101; 103; 107 or 150; 114; 155.

165. PRINCIPLES OF SECONDARY EDUCATION

A consideration of the organization, development, objectives, learning activities, evaluation methods, and instructional procedures of the secondary school. Two Hours

181. SPECIAL METHODS OF SECONDARY TEACHING

The director of student teaching, the prospective supervising teacher, and the major professor collaborate in preparing the student to do directed teaching. The course is a study of the general methods and specific techniques which may be adapted to secondary teaching in the following areas:

Language Arts and Literature
Science and Mathematics
Religion and Social Sciences
Music
Typewriting and Shorthand
Home Economics
Physical Education
Speech

Three Hours

190. DIRECTED TEACHING IN THE SECONDARY SCHOOL

A course in which the student teacher observes, participates in class activities, makes lesson plans, and teaches under the supervision of the secondary school supervisor and with the counsel of the head of the college Department of Secondary Education. The student must be recommended by his major professor and accepted by the director of teacher education before registering for this course.
Prerequisites: 165, 181. Four-Six Hours

CURRICULUM FOR ELEMENTARY EDUCATION (B.S.)

FRESHMAN YEAR	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 1, 2)	3	3
Freshman English (English 1-2)	3	3
General Psychology (Education 5)	3	
Health Principles (Health 59)		2
Applied Arts	2	2
Arts and Crafts (Education 51)	2	2
Voice and Diction (Speech 52)		2
Physical Education (Physical Education 7, 9)	½	½
	15½	16½
SOPHOMORE YEAR		
Religion (51, 52 or 71, 72)	2	2
General Education Basic Science (63, 64)	4	4
Principles of Education (Education 61)	3	
American History and Institutions (History 92)		3
Introduction to Education (Education 55, 56)	1	1
Principles of Geography (Geography 52) (Recommended)		3
Literature	2	2
Physical Education	½	½
United States Constitution (Political Science 55)	2	
Elective	2	
	16½	15½
JUNIOR YEAR		
Religion	2	2
English or Oral Interpretation (Speech 131)	2-3	
Organization and Administration of the Elementary School (Education 113)	3	
Child Growth and Development (Education 121)	2	
Music in the Elementary School (Education 118)		2
Reading in the Elementary School (Education 135)	3	
Arithmetic in the Elementary School (Education 136)		2
Elementary School Curriculum and Methods (Education 125, 126)	2	2
Teaching II (Education 131, 132)	2	2
Western America and California (History 112)		2
The Exceptional Child (Education 144)		2
Elective		2
	16-17	16
SENIOR YEAR		
Audio-Visual Materials in Instruction (Education 103)	2	
Educational Measurements (Education 155)	3	
Teaching III (Education 185, 186)	1-4	1-4
Educational Psychology (Education 114)		3
Minors or Electives	7	9
	13-16	13-16

NURSING EDUCATION

A five-year combined curriculum is offered in Nursing Education, leading to the degree of Bachelor of Science, with a minor in Biology, Social Science, Religion, or cognates of at least nine semester hours in Social Science and Psychology. Candidates for a degree must be graduate, registered nurses, having spent three years in an accredited school of nursing. Nurses who have completed the prenursing curriculum may meet the requirements for a degree with approximately 42 semester hours additional work, according to this schedule:

Preprofessional course	32 hours
Professional course (individually evaluated), a maximum of	54 hours
Additional courses to meet academic requirement for graduation	42 hours
Total	128 hours

In consultation with the faculty adviser, the student will arrange her study list to meet the requirements of the General Education outline (C, page 34) and the Basic Completion (E, page 35) program.

Major Requirements: In addition to work taken in the school of nursing and the basic requirements for the Bachelor of Science degree, 10 semester hours are required in the field of Nursing Education.

1. History of Nursing

A study of the history of the growth of nursing from ancient times to the present. Emphasis is placed on modern professional problems. Two Hours

105. Foundation of Nursing Education

A survey of the growth and development of nursing education from the past to the present time. Two Hours

147. Ward Management

A study of the management of ward service. Includes a study of the physical plant and equipment with consideration of problems of hospital or sanitarium management. Two Hours

152. Community Nursing and Community Resources

This course is designed to familiarize the student with agencies engaged in the promotion of health. Two Hours

158. Trends in Clinical Nursing

A study of some of the recent developments, trends, and current problems facing the nursing profession and the education of nurses. A careful survey is made of current developments in the various aspects of clinical teaching. Two Hours

159. Progressive Methods in Clinical Teaching

A survey of methods most effective in teaching the clinical courses in nursing. Evaluation of technique used in class and clinical practice will be a part of the class requirement. Taught on the Loma Linda Campus of the College of Medical Evangelists. Two Hours

PRENURSING

(See curriculum in the special Curriculums section of this Bulletin.)

HEALTH, PHYSICAL EDUCATION, AND RECREATION

The Department of Health, Physical Education, and Recreation offers every student an opportunity to participate in a program designed to aid in the development of physical efficiency, healthful living, social cooperation and intelligent use of leisure time.

Service course program requirement: All lower division students except veterans and those over 25 years of age must successfully complete four semester hours of physical education activities. A two-hour course in Health Principles in addition to the service course program will partially fulfill the general education requirement for the Bachelor's degree.

No student may be excused from the required service program. Students who are handicapped or who have physical disabilities are assigned to a program of modified activities or complete rest as prescribed by their physician.

Major Requirements: Two hours of physical education on the service course level (Physical Education 76, 86; Health 59) and 28 hours of upper division, including Physical Education 144, 152, 171, 176, 178, 189, and ten other hours selected from courses in Health, Physical Education, and Recreation, to a total of 36.

Cognate requirements: Zoology 5, 6; Biology 8 or 58; Home Economics 99 or 186 and a minor in Elementary or Secondary Education, including Education 120. Recommended: Zoology 63; Home Economics 166; Sociology 74; Visual Arts 57.

Students desiring a larger spread of teaching subjects may consult their adviser concerning a Bachelor of Science degree.

Minor in Recreation: Twenty hours, of which a minimum of 9 must be in the upper biennium. Required courses: Physical Education 75, 188, 144. Related courses in Visual Arts, Music Education, and Applied Arts may apply at the discretion of the chairman.

Minor in Health and Physical Education: Twenty hours, of which a minimum of 9 must be in the upper biennium. Required courses: Physical Education 75, 172, 144, 152.

7, 8. Freshman Physical Education

Required of all freshmen.
First semester: Orientation, skill testing, motor ability, and conditioning are stressed in this introductory course. Men students who do not pass the Medical Cadet test will register for the MCC section. Second semester: Social, physiological, and recreational activities. Students who do not pass the required swimming test will register for the swimming section. One Hour

11, 12. Freshman Adaptive Physical Education

Students in this class take special corrective or restricted activities suited to their individual needs and capacities as prescribed by the school physician or a competent physician in coordination with the Department. One-Two Hours

51, 52. SOPHOMORE ADAPTIVE PHYSICAL EDUCATION *
A continuation of 11, 12. One-Two Hours

55. COOPERATIVE ACTIVITIES
Prerequisites: 7, 8 or equivalent and pass in a required swimming test. One-half Hour

56. ADULT ACTIVITIES
Prerequisite: 55 or pass in a required swimming test.
A. Archery
B. Badminton
C. Golf (Transportation fee, $3)
D. Tennis
E. Skiing (Transportation fee, $10)
F. Swimming
G. Lifesaving One-half Hour

TECHNIQUE AND THEORY COURSES

5, 6. ANATOMY AND PHYSIOLOGY (See Biology section for description of course.) Six Hours

16. MEDICAL CADET SCIENCE
Study in organization of the medical department and basic fundamentals required of the medical soldier. One Hour

59. HEALTH PRINCIPLES
A study of the principles governing community and personal health and how these principles may be successfully applied to daily living. Special emphasis is placed on denominational standards. Two Hours

67-68. ELEMENTARY GYMNASTICS
Permission of the instructor must be obtained before enrolment. One-Two Hours

75. PRINCIPLES OF HEALTH, PHYSICAL EDUCATION, AND RECREATION
The principles underlying the educational procedures in the health, physical education, and recreation program. (Physical Education credit only.) Two Hours

86. PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL
A course designed for elementary teachers with emphasis on mass games, relays, stunts, and recreational activities in coordination with Junior Progress class work. Two Hours

113. APPLIED HEALTH PRINCIPLES
A survey of the principles of healthful living and the use of these fundamental laws of health for evangelism. May be taken only by social science, theology, and religion majors. May be applied as credit in health only. Two Hours

144. TECHNIQUES IN AQUATICS
The development of skills in swimming with emphasis on the teaching methods. One Hour

127, 128. INTERMEDIATE GYMNASTICS
For members of the Gymkana Troup only. Two Hours

132. SAFETY AND PREVENTION OF INJURIES
First Aid safety measures, bandaging, and massage for the prevention of injuries. Two Hours

141. Techniques in Fall Team Activities

Class organization, teaching methods, rules, and skills in the following team activities; soccer, flag-football, basketball (men); soccer, speedball, basketball (women).
Prerequisites: proficiency test or course work in the above activities. Two Hours

142. Techniques in Spring Team Activities

Class organization, teaching methods, rules, and skills: softball, volleyball, track and field (men); softball, volleyball (women). Prerequisites: proficiency test or course work in the above activities. Two Hours

152. Health Education *

A consideration of the teacher's function in the different phases of the school health program: environment, services, and instruction. Sources of material and methods of coordination between home, school, and community are stressed. Two Hours

157, 158. Advanced Gymnastics

For members of the Gymkana Troup only. Two Hours

161. Techniques of Co-Recreational Activities *

Class organization, teaching methods, rules, and skills in the following activities: skating, badminton, and archery.
Prerequisites: proficiency test or work in the above activities. Two Hours

162. Techniques of Individual Activities *

Class organization, teaching methods, rules, and skills in the following activities: golf, tennis, and gymnastics.
Prerequisites: proficiency test or work in the above activities. Two Hours

166. Techniques of the Adaptive Program *

Class organization, methods, procedure in developmental, preventive, and corrective measures in teaching the individual needs of students in the adaptive physical education class. This includes the physical examination, corrective exercise, follow-up, and evaluation. Two Hours

171. Administration of Health and Physical Education *

The organization and administration of the health and physical education program on the elementary and secondary levels.
Prerequisite: 75. Three Hours

176. Kinesiology *

A study of the principles of human motion. Anatomical and mechanical analysis of everyday and physical education activities emphasizing normal physical development.
Prerequisite: Zoology 5, 6. Three Hours

178. Physiology of Exercise

Physiological changes during muscular activity and their significance in the adaptive program.
Prerequisite: Zoology 5, 6. Three Hours

189. Recreational Leadership

Principles and organization of community recreation with emphasis on recreational leadership. Attention to crafts, music, social program and outdoor education in coordination with youth organizations and the Master Guide program. Three Hours

199. Special Problems in Health, Physical Education, and Recreation

Open only to students in the field of education upon permission of the instructor. One-Four Hours

CURRICULUM FOR HEALTH AND PHYSICAL EDUCATION MAJOR

FRESHMAN YEAR	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
Freshman English (1, 2)	3	3
General Psychology	3	
Health Principles (59)		2
Principles of Health, Physical Education and Recreation (75)	2	
Nutrition (Home Economics 98)		2
Microbiology (8)		4
Chemistry (1-2) or Basic Science 64	3	3-4
Applied Arts	2	
Physical Education (7, 8)	½	½
	15½	16½-17½

If the student does not have two secondary units of college entrance credits in language, he may, to compensate for this deficiency, take six hours in summer school or by extension in Fine Arts, Applied Arts, Literature, Religion, or the language. This should be done between the freshman and sophomore years.

SOPHOMORE YEAR		
Religion 51, 52 or 71, 72	2	2
History of Western Civilization (History 1, 2)	3	3
Fine Arts	2	2
Anatomy and Physiology (Zoology 5, 6)	4	2
Physical Education in the Elementary School (HPER 86		2
Physical Education (Physical Education 55, 66)	½	½
Speech	2	2
Intermediate Language	3	3
	16½	16½

JUNIOR YEAR		
American History and Institutions (History 91, 92)	3	3
Child Growth and Development (Education 120)		2
Principles of Education (Education 161)	3	
Philosophy and History of Education (Education 162)		3
Language	2	
Upper division major electives	5	9
Many physical education classes are offered only in alternate years. Juniors should note preferred subjects and anticipate the year of their availability.		
Electives	4	
	17	17

SENIOR YEAR		
Religion	2	2
Audio-Visual Materials in Instruction (Education 103)	2	
Special Methods of Secondary Teaching (Education 181)	3	
Observation and Directed Teaching in the Secondary School (Education 190)		4
Upper division major electives (See above)	5	9
Literature	2	2
Electives	3	
	17	17

V

LANGUAGE AND LITERATURE

Thomas A. Little, *Chairman*

*Lawrence E. Mobley
Margarete Ambs
Lillian L. Beatty
Helen F. Little
Edward Nachreiner
Mabel Curtis Romant
*Robert A. Williams
Hazel Brebner Witthaus

ENGLISH

The English Department aims to equip the general college student with (a) information and spirit for the profitable enjoyment of literary art and history and (b) efficiency in organizing his thoughts into effective compositions. Additional aims for the English major are scholarship in literature and composition adequate to teaching, and preparation for graduate study in English.

Major Requirements: Thirty hours in addition to English 1-2, with a minimum of 15 in the upper biennium. Prescribed courses: English 51, 52 or 151, 152); 61, 62; 105-106; 155-156; and 197-198. 105-106 may be waived by credit in Journalism 55-56 or its equivalent, though only two of the hours of Journalism may apply as English. A related requirement, in addition to the General Education history requirement, is a full-year course in British Civilization (107, 108).

Minor Requirements: 18 hours in addition to English 1-2, with a minimum of 8 in the upper biennium. Prescribed courses: English 51, 52 (or 151, 152); 61, 62; and 105-106. 105-106 may be waived by credit in Journalism 55-56 or its equivalent, though only two of the hours in Journalism may apply as English. History 107, 108 is recommended.

OA. Functional Grammar and Language Elements

A concentrated non-credit review course prerequisite to English 1-2 for all students who do not pass the English Placement Test.
Fee: $20.00. No Credit

1-2. Freshman English

A beginning course in college English, stressing assignments in diction, sentence structure, paragraph writing, and compositional organization. Blended with the serious writing is an introduction to literature, with particular attention to literary types and their ways of gaining effectiveness. English 1-2 is prerequisite to any other course in English.
Six Hours

51, 52. American Literature

A study of the more important aspects of the history of American literature and of the typical work of the significant authors from the seventeenth century to about 1900. Four Hours

61, 62. English Literature Survey

An outline study of the history of English literature and of the more significant works from Beowulf to about 1900. Six Hours

*On leave, 1956-57.

105-106. ADVANCED COMPOSITION *

Advanced study of the principles of effective composition; practice in creative writing by types. Four Hours

110. SURVEY OF LINGUISTICS AND GRAMMAR *

Divided between the history of the language and a study of current grammar. Not for those who need a course in basic grammar. Not applicable on the literature requirement for the Bachelor of Arts degree. Two Hours

113, 114. WESTERN WORLD LITERATURE *

Reading and study of selected literary monuments of Western culture. The second semester carries no credit to English majors or minors or to others who have credit in English 62. Four Hours

116. TWENTIETH CENTURY LITERATURE *

A study of distinctive literature since 1900, with particular attention to works that reveal the taste and temper of the time. Two Hours

151, 152. AMERICAN LITERARY MASTERS

Extensive study of selected major writers significant in American literary history. (Students who have had other courses in literature and are well prepared in American history are eligible for this course.) No credit to those with credit in English 51, 52. Four Hours

155-156. OLD AND MIDDLE ENGLISH

The Old English is studied in translation. The Middle English, mostly Chaucer's works, is studied in the original. Six Hours

160. MILTON

The works of John Milton, all of the poetry and the more significant prose, studied in the light of the historical and literary setting. Two Hours

161, 162. LITERATURE OF THE ENGLISH RENAISSANCE*

The first semester is devoted to the great non-dramatic poetry from 1550 to 1650. The second semester has to do with prose.
Prerequisite: 61. Four Hours

165. THE ROMANTIC POETS *

Prerequisite: 62. Three Hours

168. THE VICTORIAN POETS * Three Hours

170. THE ENGLISH BIBLE AS LITERATURE

A study of the Bible as literary art among the world's supreme masterpieces. This course applies on the English major or minor but not on the first four hours of the general literature requirement for the Bachelor of Arts degree.
Prerequisite: One semester of English or American literature. Three Hours

174. NINETEENTH CENTURY PROSE Two Hours

183, 184. DRAMATIC LITERATURE

A carefully selected sequence of dramatic classics from Aeschylus to Ibsen, studied to reveal their literary values and cultural attitudes. More than half the time is given to Shakespeare. Six Hours

197-198. ENGLISH MAJOR CONFERENCE

An integrating group study required of English majors in the senior vear and recommended to minors. Only majors and minors in the department are admitted. Two Hours

CURRICULUM FOR ENGLISH MAJOR

FRESHMAN YEAR	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 1, 2)	3	3
Freshman English (English 1-2)	3	3
Beginning Language (French or German recommended) (Not required of those who present two units of college entrance in the chosen language.)	3	3
General Psychology (Education 5)	3	
Applied Arts	2	2
Elective		3
Freshman Physical Education (7, 8)	½	½
	16½	16½
SOPHOMORE YEAR		
English Literature Survey (English 61, 62)	3	3
Religion (51, 52 or 71, 72)	2	2
General Education Basic Science (Science 63, 64)	4	4
American History and Institutions (91, 92)	3	3
Intermediate Language	3	3
Fine Arts	2	2
Physical Education	½	½
	17½	17½
JUNIOR YEAR		
American Literary Masters (English 151, 152)	2	2
News Writing (Journalism 55-56 or Advanced Composition 105-106)	2	2
Upper Division English (Old and Middle English, a prescribed subject, and some other upper division classes are offered only in alternate years; juniors should note preferred subjects and anticipate the year of their availability.)	3-6	3-6
Speech	2	2
Health Principles (Health 59)	2	
British Civilization (History 107, 108) (Offered only in alternate years; juniors may anticipate this as a senior subject when it is not available in their junior year.)	2	2
Language (143-144 recommended)	1	1
Elective		3
	17	15-18
SENIOR YEAR		
English Major Conference (English 197-198)	1	1
Upper Division English	6	6
Upper Division Religion	2	2
Electives	7	7
	16	16

JOURNALISM

Minor Requirements: Eighteen hours selected in conference with the adviser, 8 of which must be in the upper biennium. To qualify for a minor in this field the student must have a broad cultural spread in general college studies, including among his prescribed and elective courses history, political science, sociology, economics, business, typewriting, and one full year in each of American and English literature. A thorough mastery of English fundamentals is expected of all taking Journalism courses. Printing courses taken for applied art credit or in a trade school (not for B.A. credit) are cognate requirements for a journalism minor, but may be waived by an adequate apprenticeship in the type room of a good printing concern.

55-56. NEWS WRITING

The writing of news, features, and interviews for the daily press, with practical experience in the use of newspaper style and technique. Four Hours

108. PUBLIC ADDRESS REPORTING

Specialized practice in reporting sermons, speeches, public meetings, and interviews according to good newspaper formulae. Enrollment restricted to those who have demonstrated proficiency in Journalism 55-56. (either semester) Two Hours

120. PRESS RELATIONS AND PUBLICITY TECHNIQUES

Lectures, readings, and directed observation and practice designed to familiarize the student — from the viewpoint of the newspaper as well as of the public relations office — with the problems of desirable reactions to honest and competent publicity.
Prerequisites: 55-56 and at least one other newspaper theory course, 149 recommended. Two Hours

125-126. COPY-DESK EDITING

A practice course for those who have shown competence in 55-56. The work involves laboratory projects in copy-reading, rewriting, headwriting, proofreading, make-up, and feature production. Two Hours

130. HISTORY AND ETHICS OF JOURNALISM

History of Journalism from about 1620 down to the present time with parallel attention to the principles that guide the best newspapers. Two Hours

149. NEWSPAPER PROBLEMS *

A study of the policies and practices of the better weekly and small daily newspapers as to news content, editorials, advertising, circulation, costs. Part of the work will be in the form of research or experience in a newspaper plant of the type considered in the course. Two Hours

SPEECH

The Speech Department aims to make the student a better equipped individual for everyday life by helping him to correct his speech defects, to gain platform poise, and to organize and present his thoughts logically and effectively.

Major Requirements: 30 hours, of which 18 must be in the upper biennium. The required courses will be determined in conference with the major professor. A senior student must have platform poise and

show himself to be an able speaker and reader. A second major in an accepted field is recommended.

Minor Requirements: 18 hours, of which 9 must be in the upper biennium.

A maximum of 4 hours credit in individual speech instruction (Courses 81, 82 and 181, 182) can be applied on a speech major; 2 hours on a speech minor.

5-6. Fundamentals of Speech

The principles of correct speech with special attention given to tone drills; proper poise and use of the body in various speech situations. Four Hours

52. Voice and Diction

A consideration of principles underlying the correct use of the voice in articulation, and the elimination of speech defects and throat fatigue. Two Hours

60. Public Procedure

A study of the principles and practices of parliamentary law. Each student is given practice in conducting business meetings. Two Hours

81, 82. Individual Speech Instruction

Correction of basic speech defects, and formation of well-supported tones. Two Hours

131. Oral Interpretation

The oral interpretation of the best literary forms, with suggestions for public presentation in a unified and spontaneous response of voice and body. Three Hours

132. Oral Interpretation of the Bible

A consideration of the principles of effective oral Bible reading with practice in platform presentation. Three Hours

135. Radio Speech

The theory and practice of microphone technique with special emphasis upon radio diction and radio listening and evaluation.
Prerequisite: 52 or equivalent. Two Hours

136. Radio Production

Preparation for production, participation, and direction of various types of radio broadcasts.
Prerequisite: 52 or equivalent. Two Hours

141. Persuasive Speech

The art of persuasion and its influence upon behaviour, including the basic factors involved, and the avenues of motivation. Three Hours

142. Principles of Discussion

The fundamental principles and techniques of problem-solving speech plus the theory and practice of the various types of discussion, including the panel, the forum, the round table, the interview, and the symposium. Three Hours

151, 152. Advanced Public Address

The principles of effective extemporaneous speaking; the techniques used in influencing human behavior through speech; and the composition and delivery of various types of public address. Three Hours

171, 172. SENIOR RECITAL

The presentation of an acceptable public recital or participation in a senior public recital. One-Two Hours

181, 182. ADVANCED INDIVIDUAL SPEECH INSTRUCTION

Emphasis is placed upon pleasing, forceful tones and upon the proper use of the speech organs. Time by appointment. Two Hours

CURRICULUM FOR SPEECH MAJOR

FRESHMAN YEAR	First Semester	Second Semester
Fundamentals of Speech (Speech 5-6)	2	2
Freshman English (English 1-2)	3	3
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 1, 2)	3	3
Beginning Language (Not required of those who present two units of college entrance in the chosen language.)	3	3
General Psychology (Education 5)	3	
Elective		3
Freshman Physical Education (Physical Education 7, 8)	½	½
	16½	16½

SOPHOMORE YEAR		
Public Procedure (Speech 61)	2	
Voice and Diction (Speech 52)		2
American History and Institutions (History 91, 92)	3	3
Religion (51, 52 or 71, 72)	2	2
General Education Basic Science (Science 63, 64)	4	4
Literature	2	2
Intermediate Language	3	3
Physical Education	½	½
	16½	16½

JUNIOR YEAR		
Oral Interpretation (Speech 131)	3	
Principles of Discussion (Speech 139)	3	
Persuasive Speech (Speech 142)		3
Religion	2	2
Fine Arts	2	2
Health Principles (Health 59)		2
Applied Arts	2	2
Electives	4	5
	16	16

SENIOR YEAR		
Oral Interpretation of the Bible (Speech 132)		3
Senior Recital (Speech 171)	1-2	
Methods in Speech Education (Speech 181)		2
Speech Electives	4	4
Literature	2	2
Electives	8	4
	15-16	15

MODERN LANGUAGES

The objectives of this department are to equip the major with the necessary tools to enter professions requiring foreign language and to prepare him for graduate study. We aim to develop the student's ability to reason inductively, to give him a deeper insight into his mother tongue, to arouse in him an awareness and appreciation of his cultural heritage, and to stimulate his interest in the foreign mission program of the church.

A well-equipped language laboratory provides students with listening and recording facilities to aid them in gaining proficiency in and mastery of the language studied.

In fulfilling his language requirements, the student should be aware that a reading knowledge of either French or German will be required of him on Master's degree work, and quite probably both French and German on a Ph.D. program.

Before enrolling in a Modern Language course numbered 100 or above, a student must have completed 12 to 14 hours, or the equivalent, of one language. Education 181 and 190 are recommended for students planning to teach a language.

FRENCH

Major Requirements: 30 hours in addition to French 3-4 or the equivalent, of which a minimum of 24 hours must be in the upper biennium. These must include 131, 155, 156. Required cognates: Survey of English Literature, 6 hours; speech, 4 hours.

Minor Requirements: 18 hours above the beginning course or its equivalent, of which a minimum of 9 must be in the upper biennium, including 131. This requirement may be reduced to 15 hours if a student has 2 secondary units or the equivalent in a language other than French.

3-4. Beginning French

An introductory study of grammar, pronunciation, reading, composition, with oral practice. Laboratory time required, three one-hour periods a week. Six Hours

53-54. Intermediate French

A continuation of 3-4. A review of grammar with readings from French authors. Prerequisite for 155, 156.
Prerequisite: 3-4 or equivalent. Six Hours

57, 58. Readings of French Masterpieces

Reading and discussion of selected works in French literature. May be taken concurrently with 53-54. Four Hours

101, 102. Vocabulary Building

Designed to enlarge the student's vocabulary, mainly through oral use. Four Hours

123, 124. Outline History of French Literature *

Literary landmarks from La Chanson de Roland to the 19th century. Special stress on the 17th century. Six Hours

131. Pronunciation
A thorough study of the fundamental principles of French pronunciation. Two Hours

141. Romanticism *
A study of French literature from 1880 to 1850 with stress on Lamartine, Vigny, Hugo, and Musset. Two Hours

142. Modern French Writers *
French literature from 1850 to 1900. Two Hours

143-144. Reading French
Readings in French in the student's major field, and readings to be chosen in conference with his major professor and the language professor. May be taken during the junior year or senior or both. Two Hours

151, 152. Contemporary Writers
A study of selected authors of the latter part of the 19th century and the beginning of the 20th. Six Hours

155, 156. Advanced Composition
Further study of grammar and idiomatic expressions with translations of literary works from English into French. Both semesters are required of majors and are recommended for minors.
Prerequisite: 53-54. Four Hours

GERMAN

Minor Requirements: 18 hours above the beginning course, or its equivalent, of which a minimum of 9 must be in the upper biennium. This requirement may be reduced to 15 hours if a student has 2 secondary units or the equivalent in a language other than German.

3-4. Beginning German
A study of the fundamentals of grammar, drills in verbs and pronunciation, reading or simple prose. Laboratory time required, three one-hour periods a week. Six Hours

53-54. Intermediate German
A review of grammar with special emphasis on idioms; reading of German prose to furnish a background of life, culture, and geographical aspects of Germany.
Prerequisite: 3-4 or equivalent. Six Hours

105. Scientific German
A course especially intended for students who plan to enter the field of science or medicine. A grammatical analysis from the standpoint of peculiarities of scientific German. Readings to acquaint the student of science or medicine with vocabulary, style, and subject matter in his field. Three Hours

107. German Conversation
Intensive practice in German pronunciation; stresses fluent and correct use of vernacular conversation based upon everyday life and events. Two Hours

108. German Prose Composition *
A brief review of grammar; practice in writing prose compositions of various types. Two Hours

135, 136. Outline History of German Literature

A study of the main currents of German Literature from the early beginnings to the present time. Readings, based on a German text, include selections of the easier masterpieces of representative authors of the periods studied. Six Hours

143-144. Reading German

Readings in German in the student's major field, the readings to be chosen in conference with his major professor and the language professor. May be taken during the junior year or senior or both. Two Hours

162. German Kulturkunde *

A study of German culture and civilization as reflected in German art, literature, philosophy, and religion. Two Hours

SPANISH

Minor Requirements: 18 hours above the beginning course, or its equivalent, of which a minimum of 9 must be in the upper biennium. including 131, 132; 145, 146. This requirement may be reduced to 15 hours if a student has 2 secondary units or the equivalent in a language other than Spanish.

3-4. Beginning Spanish

Essentials of Spanish grammar; a systematic training in pronunciation, conversation, and reading. Laboratory time required, three one-hour periods a week. (Summer session only.) Six Hours

53-54. Intermediate Spanish

A continuation of 3-4. Grammar review, oral practice; readings from Spanish and Hispanic American authors.
Prerequisite: 3-4 or the equivalent. Six Hours

67, 68. Reading of Spanish Authors Four Hours

131. Advanced Composition and Conversation

Recommended for teaching minors. Two Hours

132. Advanced Grammar and Composition

Recommended for teaching minors. Two Hours

143-144. Reading Spanish

Readings in Spanish in the student's major field, the readings to be chosen in conference with his major professor and the language professor. May be taken during the junior year or senior year or both. Two Hours

145, 146. Outline History of Spanish Literature *

Literary landmarks from the Middle Ages through the contemporary period with emphasis on the authors of the Golden Age and of the nineteenth century. Six Hours

149. Spanish Civilization *

A survey of the physical, racial, historical, and artistic elements which have influenced and molded Spanish civilization and culture, and their influence on the cultures of the world. Two Hours

161, 162. Hispanic American Literature *

A survey of the trends in Hispanic American literature from its beginnings to contemporary times with emphasis on Dario, Bello, Palma, and others. Four Hours

CURRICULUM FOR FRENCH MAJOR

FRESHMAN YEAR

	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 1, 2)	3	3
Freshman English (English 1-2)	3	3
Beginning French (French 3-4) (Not applicable to those who have college entrance in the same language.)	3	3
General Psychology (Education 5)	3	
Health Principles (Health 59)		2
Applied Arts	2	2
Elective		1
Freshman Physical Education (Physical Education 7, 8)	½	½
	16½	16½

SOPHOMORE YEAR

Religion (51, 52 or 71, 72)	2	2
American History and Institutions (History 91, 92)	3	3
Intermediate Language	3	3
General Education Basic Science (Science 63, 64)	4	4
English Literature Survey (English 61, 62)	3	3
Elective	1	1
Physical Education	½	½
	16½	16½

JUNIOR YEAR

Upper Division French (A student in the junior year should take note that many of the upper division French classes are offered only in alternate years, and he should therefore, in consultation with the chairman of the department, arrange his study list accordingly.)	5	5
Religion	2	2
Fine Arts	2	2
Pronunciation (French 131)	2	
Speech	2	2
Electives	3	5
	16	16

SENIOR YEAR

Upper Division French	7	5
Electives	9	11
	16	16

VI

MUSIC AND ART

HAROLD B. HANNUM, *Chairman*
FRANCES BROWN
H. ALLEN CRAW
EDNA S. FARNSWORTH
CHLOE ADAMS SOFSKY
ALFRED WALTERS
ROBERT WARNER
JOHN T. HAMILTON

GENERAL EDUCATION FINE ARTS

57. INTRODUCTION TO VISUAL ARTS
A basic general education course in understanding painting, sculpture, architecture and other arts. Given each semester. Two Hours

58. INTRODUCTION TO MUSIC
A basic general education course in understanding music and elementary principles of aesthetics underlying all the arts. Given each semester. Two Hours

These courses are required of all candidates for the B. A. degree. Substitutions, on the basis of equivalent information, may b approved only on recommendation of the chairman of the division.

MUSIC

The objectives of this department are to give students an understanding and appreciation of the musical heritage of man; to aid the student in acquiring knowledge, techniques, and skills necessary for performers, composers, teachers, singing evangelists, and church musicians; and to provide for students in leisure time cultural and artistic activities, such as group music experiences and intelligent listening to music.

Major Requirements: 40 hours, of which a minimum of 18 must be in the upper biennium. Required courses: 5, 6 Theory I; 51, 52 Theory II; 107, 108 Counterpoint; 111, 112 History of Music; 8 hours in *one* field of applied music. Electives from courses 21, 22; 55, 56; 121, 122; 155, 156; 190; 101, 102; 117; 124; 63; 113, 114; 197-198; 199.

Specific study programs will be arranged in consultation with the staff. A student majoring in music may apply a maximum of 50 hours in music toward a Bachelor of Arts degree.

Minor Requirements: 18 hours, of which a minimum of 6 must be in the upper biennium. Required courses: 5, 6 Theory I; 111, 112 History of Music. Eight hours to be selected from the courses listed above under major requirements.

BACHELOR OF MUSIC EDUCATION

The curriculum leading to the degree Bachelor of Music Education is offered for those interested in the field of music teaching. This curriculum gives a student concentration (24 hours) in one field

of applied music with supplementary instruction in the remaining fields of applied music. Emphasis is given to the technique and practice of teaching music. A 40-48 hour requirement in general college courses provides a basis for general culture.

Required:

1. General Education and Basic Completion courses (pages 34-35), except languages and applied arts and with the understanding that the student will either pass waiver examinations in History 91, 92 or take the class in summer school or by extension.
2. Musicianship (32 hours): Theory I and II, Form and Analysis, Counterpoint, Music Composition, Orchestration, History of Music, Conducting Technique, Music Organizations.
3. Applied Music (30 hours): 24 hours in one instrument or voice, including courses 21, 22, 55, 56, 121, 122, 190; 6 hours in secondary applied music fields, including courses 91, 92, 93, 94, 95, 96, or their equivalent.
4. A minor in Education, 20 hours.

Total course hours, 128, 40 hours of which are to be upper division. All courses in the department except 15, 16 and 1 may be counted toward the Bachelor of Music Education degree.

APPLIED MUSIC

Private half-hour lessons are given in piano, organ, voice, violin, and orchestral and band instruments. Students may take applied music with or without credit.

College credit in applied music is granted on the following basis:

1. One or two half-hour lessons a week.

   (Students desiring more than one hour of credit per semester must take two half-hour lessons a week. Students taking one half-hour lesson a week are expected to take a minimum of 15 lessons per semester; and those taking two half-hour lessons a week are expected to take a minimum of 30 lessons per semester.)
2. Three hours of practice per week for each hour of credit.
3. A passing grade in a satisfactory semester examination.
4. Participation in public recitals as requested by the instructor.

Credit in applied music in excess of four hours must be supplemented by an equal number of hours in Theory or Music History.

The maximum amount of credit in applied music allowed on the Bachelor of Arts degree for non-music majors is 8 hours; for music majors taking the Bachelor of Arts degree, 16 hours.

Students pursuing the Bachelor of Music Education degree are required to take two lessons a week in their major field of applied music.

Students in applied music must secure the approval of their instructor before performing in public.

At the semester examinations in applied music, each student must demonstrate sufficient advancement in technique and musicianship to satisfy the examiners. The examination will consist of at least one number from memory and one or two other numbers of a diversified nature together with technical exercises.

Applied music courses may be repeated for credit until the maximum of eight hours is reached. Students must satisfy their teacher and examiners as to the extent of repertoire covered.

Students majoring (16 hours) in applied music are required to complete the level of attainment of the applied music courses 21, 22 and 55, 56.

Students fulfilling the requirements for the Bachelor of Music Education degree are required to complete the level of attainment of the applied music courses 21, 22; 55, 56; and 121, 122.

Students majoring (16 hours) in applied music are required to give a recital of acceptable merit in their senior year.

Transfer students majoring in music must take a minimum of 2 hours in applied music (major field) at La Sierra College.

15, 16. Preparatory Applied Music

Credit in this course may not be applied on a major or minor in music or on the applied music requirement of the Bachelor of Music Education degree. It may apply toward college elective requirements. One-Four Hours

21, 22. Applied Music (First Year) One-Eight Hours

55, 56. Applied Music (Second Year) One-Eight Hours

91, 92. String Instrument Class

A study of the string instruments of the orchestra to give students an understanding of the basic elementary technique of each. Two Hours

93, 94. Woodwind Instrument Class

An introductory study of the orchestral woodwind instruments. Two Hours

95, 96. Brass Instrument and Percussion Class

An introductory study of the orchestral brass and percussion instruments. Two Hours

121, 122. Applied Music (Third Year) One-Eight Hours

155, 156. Applied Music (Fourth Year) One-Eight Hours

190. Senior Recital

The presentation of a creditable public recital approved by the music faculty. One-Two Hours

THEORY

1. Elements of Music

The study of the rudiments of music, diction, sight-singing and ear-training. Primarily for students without any previous music training. This course may count only as a college elective and may not be counted on a major or a minor or toward the Bachelor of Music Education requirements. Two Hours

5, 6. Theory I

A thorough study of the fundamentals of musicianship — chords, scales, intervals, and elementary harmony, with emphasis upon ear-training and keyboard harmony. A supplementary period for ear-training and dictation is required in addition to the regular class sessions each week. Six Hours

51, 52. Theory II

A continuation of the study of harmony, with emphasis upon ear-training, keyboard harmony, the harmonizing of melodies and basses, and original writing. A supplementary period for ear-training and dictation is required in addition to the regular class sessions each week. Six Hours

101, 102. Form and Analysis

An analytical course including a study of the smaller forms through the sonata and rondo forms and the contrapuntal forms. Harmonic analysis of excerpts from classic, romantic, and modern music.
Prerequisite: 5, 6. Four Hours

107, 108. Counterpoint

A study of the polyphonic styles of the 16th and 18th centuries, with practice in writing two and three part motets and inventions.
Prerequisite: 5, 6. Four Hours

117. Music Composition

Practice in writing original compositions in the smaller forms.
Prerequisites: 5, 6; 51, 52. Two Hours

124. Orchestration

A study of the instruments of the orchestra; arranging music for the orchestra.
Prerequisites: 5, 6; 51, 52. Two Hours

MUSIC HISTORY AND LITERATURE

63. Music Literature

A study of significant music from the time of Bach to the present to develop an understanding of music frequently performed today. Directed listening to recordings. Given either semester. Two Hours

111, 112. History of Music

A chronological study of the various periods in the development of music from the earliest times to the present. It is desirable that students have an elementary knowledge of theory and music fundamentals before enrolling in this course. Four Hours

113, 114. History of Church Music

A study of music and its relation to the church from the time of Hebrew music to the present. Emphasis upon hymns and hymn-tunes and the place of music in worship. Four Hours

197-198. Introduction to Musicology

An introduction to various fields of musical knowledge and research to prepare a student for graduate study in music.
Prerequisites: 5, 6; 51, 52; 58; and the approval of the instructor. Two Hours

199. Advanced Music Projects One-Two Hours

CONDUCTING

60. Elementary Conducting
Fundamental rules and practice in conducting, congregational singing. The practical use of music in the church and in evangelism. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.)
Prerequisite: 1 or equivalent. Two Hours

132. Conducting Technique
A review of the principles of conducting. *Section I.* The materials and methods in organizing and conducting choral organizations. *Section II*: The materials and methods of organizing and conducting bands and orchestras and instrumental ensembles. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.) Two Hours

MUSIC EDUCATION

118. Music in the Elementary School
(May be counted only toward a Bachelor of Music Education degree, or as a college elective. See Education section for description of course.)
Prerequisite: 1 or equivalent. Two Hours

191. Music Materials and Techniques
A survey of the best materials and methods of teaching applied music, piano, voice, or violin, or directing choral or instrumental organizations. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.) Two Hours

ORGANIZATIONS

An organization may be repeated once only for credit. Not more than a total of six hours of credit in organizations may be applied toward a Bachelor of Arts degree.

71, 72. Band
Membership is open to all students of band instruments. A limited number of college-owned instruments can be rented each semester on application. Concerts are given each year. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.) One hour each semester. One-Four Hours

73, 74. Choral Organizations
The College choral organizations are open to singers who qualify for membership. Representative works of the masters of choral composition, both sacred and secular, are studied and performed. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.) One hour each semester. One-Four Hours

75, 76. Orchestra
This organization, besides being a valuable aid to developing a sense of time and musicianship offers a pleasurable and worth-while opportunity for students of musical instruments that are to be found in a symphony orchestra. Classical and light music are studied and played each semester. Membership is open to all students who qualify after a conference with the director. Concerts are given each year. (May be counted only toward a Bachelor of Music Education degree, or as a college elective.) One hour each semester. One-Four Hours

77, 78. Ensemble Music
Instrumental and vocal groups, such as La Sierrans, quartets, trios, etc., under the direction of the music staff. (May be counted only toward a Bachelor of Music Education degree or as a college elective.) One hour each semester. One-Four Hours

177, 178. ADVANCED ENSEMBLE MUSIC

Advanced work in vocal and instrumental ensembles, under the direction of the music staff. (May be counted only toward a Bachelor of Music Education degree or as a college elective.) One hour each semester. One-Four Hours

CURRICULUM FOR MUSIC MAJOR

FRESHMAN YEAR	First Semester	Second Semester
Theory I (Music 5, 6)	3	3
Applied Music (Music 21, 22)	1	1
Freshman English (English 1-2)	3	3
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 1, 2)	3	3
Beginning Language (Not required of those who present two units of college entrance in the chosen language.)	3	3
Freshman Physical Education (Physical Education 7, 8)	½	½
	15½	15½

SOPHOMORE YEAR		
Theory II (Music 51, 52)	3	3
Applied Music (Music 55, 56)	1	1
General Psychology	3	
Introduction to Visual Arts (57)		2
Religion (51, 52 or 71, 72)	2	2
General Education Basic Science (Science 63, 64)	4	4
Intermediate Language	3	3
Physical Education	½	½
	16½	15½

JUNIOR YEAR		
Applied Music (Music 121, 122)	1	1
Counterpoint (Music 107, 108)	2	2
Religion	2	2
Literature	2	2
American History and Institutions (History 91, 92)	3	3
Speech	2	2
Language	2	
Health Principles (Health 59)		2
Applied Arts	2	2
	16	16

SENIOR YEAR		
Applied Music, (Music 121, 122)	1	1
History of Music (Music 111, 112)	2	2
History of Church Music (Music 113, 114)	2	2
Music Electives	4	4
Electives	7	7
	16	16

CURRICULUM FOR THE BACHELOR OF MUSIC EDUCATION

FRESHMAN YEAR	First Semester	Second Semester
Theory I (Music 5, 6)	3	3
Applied Music (Music 21, 22)	3	3
Freshman English (English 1-2)	3	3
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 1, 2)	3	3
Music Organization	1	1
Freshman Physical Education (Physical Education 7, 8)	½	½
	15½	15½
SOPHOMORE YEAR		
Theory II (Music 51, 52)	3	3
Applied Music (Music 55, 56)	3	3
Religion	2	2
General Education Basic Science (63, 64)	4	4
General Psychology (Education 5)		3
String Instrument Class (Music 91, 92)	1	1
Music Organization	1	No credit
Physical Education	½	½
Introduction to Visual Arts (57)	2	
	16½	16½
JUNIOR YEAR		
Applied Music (Music 121, 122)	3	3
Counterpoint (Music 107, 108)	2	2
Religion	2	2
Education	4	4
Woodwind Instrument Class (Music 93, 94)	1	1
Music Organization	No credit	
Conducting Technique (Music 132)		2
Form and Analysis (Music 101, 102)	2	2
Health Principles (Health 59)	2	
	16	16
SENIOR YEAR		
Applied Music (Music 155, 156)	3	3
Literature	2	2
Music Composition (Music 117)	2	
Orchestration (Music 124)		2
History of Music (Music 111, 112)	2	2
Brass Instrument and Percussion Class (Music 95, 96)	1	1
Music Organization	No credit	
Education	6	6
	16	16

Totals: Liberal Arts, 45 hours; Education, 20 hours; Applied Music, 24 hours; Secondary Applied Music, 6 hours; Music Theory and History, 30 hours; Organizations, 3 hours.

Note: It is recommended that students in this curriculum meet the state requirements in American History, U.S. Constitution or government, California government, by passing a waiver examination or by taking the courses in summer sessions or by extension.

VISUAL ARTS

The department of Visual Arts seeks to develop in the students an acquaintance with and an appreciation of the masterpieces of art; to aid them in understanding the basic principles of true art and their application to life situations; and to develop as far as possible technical proficiency in artistic performance.

Major Requirements: 30 hours, of which a minimum of 15 must be in the upper biennium. Required courses: Art appreciation, 4 hours, and Senior Project, 2 hours.

Minor Requirements: 18 hours, of which a minimum of 9 must be in the upper biennium. Required course: Art appreciation, 4 hours.

DRAWING AND PAINTING

51. Lettering

Lectures, laboratory assignments in single stroke Roman, English Text, and other traditional alphabets. Creative modern lettering. Simple layouts. Two Hours

52. Art Education

A study of the fundamental art principles as applied to the needs of children. Teaching methods. Laboratory assignments in various media of a type suitable for grade school art. (May not be applied on a major or minor in Art.) Two-Three Hours

53. Design I

A study of the basic art elements and their function in the composition. Laboratory assignments with definite application of the principles studied. One-Two Hours

59. Ceramics I

Modeling and glazing of simple pottery forms. One-Six Hours

61. Sculpture

Modeling or carving in various media. The study of suitability of subject to medium. Special project for predental students. One-Six Hours

65. Fundamentals of Drawing and Painting

A foundation course in the principles and techniques of drawing and painting. Laboratory assignments in various media. One-Six Hours

103. Painting

Landscape, still-life, or portrait painting in oil or water color. One-Eight Hours

107. Design II

A study of the art elements and their application to abstract design and studies in layout and illustration. One-Six Hours

111. Ceramics II

Throwing on the potter's wheel; special experiments in glazes. Prerequisite: Course 57. One-Two Hours

199. Senior Project II

A mural or a series of paintings, or a special project in ceramics, planned for the senior student majoring in Art. This project must exhibit an acceptable degree of technical facility and creative power. Two-Three Hours

ART APPRECIATION

117. HISTORY OF ART

A chronological study of the various periods in the development of architecture, sculpture, and painting from the earliest times to the present. Four Hours

CURRICULUM FOR VISUAL ARTS MAJOR

FRESHMAN YEAR	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 1, 2)	3	3
Freshman English (English 1-2)	3	3
Beginning Language (French recommended) (Not required of those who present two units of college entrance in the chosen language.)	3	3
General Psychology (Education 5)	3	
Health Principles (Health 59)		2
Visual Arts (Selected from 53, 57, 61, 65)	2	3
Freshman Physical Education (Physical Education 7, 8)	½	½
	16½	16½

SOPHOMORE YEAR		
Religion (51, 52 or 71, 72)	2	2
Elementary Photography (Recommended)		2
Intermediate Language	3	3
General Education Basic Science (Science 63, 64)	4	4
Fundamentals of Speech (Speech 5-6)	2	2
Music Literature (Music 63, 64)	2	2
Electives on Major Concentration	3	1
Physical Education	½	½
	16½	16½

JUNIOR YEAR			
History of Art (Visual Arts 115, 116)	2		2
American History and Institutions (History 91, 92)	3		3
Technical Drawing (Building Construction 41, 42) or Home Economics 59, 109, or 118 (Recommended)	2		2
Language	2	or	2
Applied Arts	2		2
Electives on Major Concentration (Upper Division)	5		5
Electives	2	or	2
	16		16

SENIOR YEAR		
Religion (Upper Division)	2	2
Renaissance History (History 151 recommended).	3	
Literature (Upper Division)	2	2
Electives on Major Concentration (Upper Division)	4	3
Electives (8 hours Upper Division)	4	8
	15	15

VII

APPLIED ARTS

FRANK JUDSON, *Chairman*

MARY PHILMON BYERS
PAUL S. DAMAZO
H. A. HABENICHT
YVONNE PASHER SONNELAND
H. RUSSELL EMMERSON
G. A. HOUCK

HOME ECONOMICS

The achievement of better everyday living in better homes is the major goal of the Home Economics Department. The philosophy of the department is the strong belief that Home Economics has a contribution to make to education in all the basic relationships of life such as personal living, home and family life, social and civic relationship, and vocation and avocational guidance and preparation.

Major Requirements: Thirty-six hours, of which a minimum of 18 must be in the upper biennium. Required courses: Home Economics 7, 8, 51, 52, 65, 190, 193, 194. Those majoring in Foods and Nutrition may omit 51, 52, and 190.

Cognate requirements: Chemistry 1-2 or 5-6, except in General Home Economics and Home Economics Education, in which Natural Science 63, 64 may be substituted; Biology 8 or 58. For foods and nutrition majors, Elementary Organic Chemistry (4 hours) is required. Recommended: Fine Arts 57, 58 for General Home Economics and Home Economics Education.

Minor Requirement: Eighteen hours, of which not less than 6 must be in the upper biennium. Prescribed courses: Home Economics 7, 8, 51, 52.

General Home Economics: This curriculum is designed to give training basic for homemaking and for those professions that require a broad understanding of the problems of family living. In addition to the above requirements, Home Economics 118, 166, Sociology 74 are required.

Home Economics Teacher Education: Students choosing this curriculum are required to minor in Secondary Education. It provides training for prospective teachers of Home Economics in secondary schools. In addition to general major requirements, Home Economics 109, 99, 118, 166, and Sociology 74 are required.

Foods and Nutrition: Students in this curriculum may qualify for dietetic internships in hospitals and institutions approved by the American Dietetic Association, and prepare for positions as dietitians in hospitals, school cafeterias, or institutional dining rooms. In addition to major requirements above, the required courses listed by the American Dietetic Association should be considered. (See Special Curriculums section of this Bulletin.)

Clothing Textiles and Related Arts: In selecting this field of specialization, the student may prepare for such professional work as teaching, home extension service, purchasing, demonstrating, textile research, fabric designing, dressmaking, and many other lines of work in addition to the obvious preparation for homemaking. In addition to the major requirements, Home Economics 59, 109, 111, 151, 152 are required for this specialization. 99, 166, and Biology 8 may be omitted.

FOODS AND NUTRITION

7. Fundamentals of Foods and Nutrition

A study of foods and their nutritive values, basic cookery, and marketing. Two class periods with a three-hour laboratory each week. Three Hours

8. Meal Planning and Service

Instruction and laboratory practice in the planning, preparation, and serving of meals. Two class periods with a three-hour laboratory each week. Three Hours

99. Human Nutrition

A study of food nutrients, digestion, metabolism and the nutritional requirements at the various age levels. Two Hours

113, 114. Advanced Foods

A study of foods from scientific and economic aspects; their selection and preparation; special attention to the more difficult preparation techniques. Experience in food demonstration is included. Especially designed for the advanced major in Home Economics. One class period and one three-hour laboratory each week.
Prerequisites: Foods 7 and 8. Four Hours

115. Experimental Foods

A study of the effect of various methods of cooking upon the nutritive value, palatability, and economy of food products. One class period and one three-hour laboratory each week.
Prerequisites: 113 or 114 and 5-6. Two Hours

166. Child Care and Training

A study of the child from prenatal life through adolescence, covering the principles involved in their care, understanding and guidance. Includes observation of and participation with children in a child development laboratory. Three Hours

171. Nutrition Topics

A course designed to acquaint students with current scientific literature in the field of nutrition. Two Hours

184. Nutrition in Disease

A study of the normal diet with modifications necessary in pathological conditions. Prerequisite: 101. Three Hours

186. Advanced Nutrition and Dietetics

An advanced course in the science of nutrition with emphasis on recent developments and their practical application in the feeding of individuals of all ages and economic levels. Laboratory animals are used to demonstrate the effects of individual dietary deficiencies and their correction. Two class periods and one laboratory each week.
Prerequisites: Biology 58, Nutrition 99, Chemistry 134.
Three Hours

CLOTHING AND TEXTILES

51. CLOTHING CONSTRUCTION AND SELECTION I

This course covers the fundamental techniques of garment selection, construction, fitting, and use of commercial patterns with simple problems in original design. Two class periods with one three-hour laboratory each week. Three Hours

52. CLOTHING CONSTRUCTION AND SELECTION II

A study of factors essential to intelligent selection of textiles for clothing and house furnishing with added emphasis on clothing selection and care, and wardrobe planning from the standpoint of beauty, health, and economy. Two class periods with one three-hour laboratory each week. Prerequisite: 51. Three Hours

59. FLAT PATTERN DESIGNING

The use of basic patterns to obtain the desired design. Previous experience in sewing is necessary. Two Hours

60. FLAT PATTERN AND DRAPING

In addition to further experience in flat pattern making, the student will learn the art and technique of draping on the human figure. Prerequisite: 59. Two Hours

109. TEXTILES

A study of textile fibers, the fundamentals of weaving, the identification of textiles, their choice and care. Two Hours

111. TAILORING

A study of professional techniques of tailoring and their application to women's garments. One class period and one three-hour laboratory each week. Prerequisite: 51 and 52. Two Hours

151. CLOTHING CONSTRUCTION III

Opportunity is given in this course to remodel, alter, and utilize garments in one's wardrobe to the best advantage.
Prerequisite: 51, 52 or approval of instructor. Two Hours

151. CLOTHING CONSTRUCTION IV

This course is planned to permit the student to gain experience in more difficult problems in clothing construction and in sewing for others.
Prerequisite: 51, 52 or approval of instructor. Two Hours

HOME MANAGEMENT

65. FAMILY HEALTH AND HOME NURSING

A study of and experience in home nursing procedures, including care of the baby. Consideration is given to factors conducive to family and community health and safety. Two Hours

74. MARRIAGE AND THE FAMILY

(See Sociology 74.) Two Hours

190. CONSUMER BUYING FOR THE HOME AND FAMILY

An analysis of problems as well as aids in purchasing from the point of view of the home, the family, and the individual. Two Hours

193. Management in Family Living

The study of the fundamental principles of the Christian home, the inter-relationship of family members, and the selection, care, use, and arrangement of household equipment. Three Hours

194. Home Management Residency

An application of the principles of home management. The student has an opportunity to live in the Home Economics Cottage under guidance of an instructor for six weeks. Two-hour weekly conferences with the instructor will be arranged. Limited to majors and minors. Prerequisite or simultaneous registration: 193. Three Hours

INSTITUTIONAL MANAGEMENT

11. Introductory Baking

An introductory course in fundamental principles of healthful institution and commercial baking, both theoretical and practical. One lecture and two laboratory periods each week. Three Hours

161. Institutional Management

The study of administrative duties and problems in institutional work, including organization, equipment, personnel, costs, marketing, and service. Three Hours

163. Institutional Purchasing **

A course dealing with problems of marketing and purchasing foods and supplies in institution quantities. Factors that influence cost and availability are stressed. Three Hours

174. Institution Layout and Equipment **

A course dealing with plant layout and equipment for foods services in school lunch rooms, cafeterias, and hospitals. Purchasing and flow availability are stressed. Three Hours

176. Quantity Cookery

The study of preparation and service of food in large quantity. Laboratory work is done in the college cafeteria and dining room. Three Hours

RELATED ARTS AND CRAFTS

57. Ceramics (See Visual Arts 57.) One-Two Hours

118. Decorating and Furnishing the Home

A study of principles governing the selection and arrangement of furniture, fabrics, and accessories appropriate for various types of homes. Includes the application of color and design principles in solving problems of family living. Two class periods and one laboratory each week. Three Hours

HOME ECONOMICS EDUCATION

199. Problems in Home Economics

Advanced work in special problems for majors. Admission only upon permission of the instructor. One-Two Hours

CURRICULUM FOR MAJOR IN HOME ECONOMICS (B.S.)

FRESHMAN YEAR	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 1, 2)	3	3
Freshman English (English 1-2)	3	3
Fundamentals of Foods and Nutrition (Home Economics 7)	3	
Meal Planning and Service		3
Microbiology (Biology 8)		4
Electives	2	
Physical Education	½	½
Psychology (Education 5)	3	
	16½	15½
SOPHOMORE YEAR		
Religion (51, 52 or 71, 72)	2	2
American History and Institutions (91, 92)	3	3
Chemistry 1-2 or 5-6	5-3	5-3
Family Health and Home Nursing (Home Economics 65)	2	
Speech 5-6	2	2
Clothing Construction and Selection (Home Economics 51, 52)	3	3
Electives		2
Physical Education	½	½
	17½-15½	17½-15½
JUNIOR YEAR		
Religion	2	2
Literature	2	2
Management in Family Living (Home Economics 193)	3	
*Electives in Home Economics	3	2
Electives	6	10
	16	16
SENIOR YEAR		
Home Management Residency (Home Economics 194)		3
Consumer Buying (Home Economics 190)		2
*Electives in Home Economics	3	6
Electives	13	5
	16	16

*In consultation with the head of the department the student will choose Home Economics electives to meet the specific requirements of the field elected for major emphasis: General Home Economics, Home Economics Teacher Education, Foods and Nutrition, and Clothing and Textiles.

BUILDING CONSTRUCTION

The building construction classes are intended to train professional builders and capable craftsmen. For the general college student the aim is to provide an understanding of building problems in the social state. Certain groups who do not plan to become technical specialists will get from prescribed classes orientation sufficient for committee memberships and tentative planning.

Major Requirements: 36 hours, of which a minimum of 18 must be in the upper biennium.

Cognate Requirements: Mathematics 5, 8; Physics 51-52; Economics 1-2; Business 5, 6; 56; 145.

Minor Requirements: 20 hours, of which a minimum of 6 must be in the upper biennium.

11-12. Carpentry *

This class works on a house or other building during the school year. Each student is given opportunity to become familiar with details of construction through actual practice. Textbook and lecture work precede each building operation. Intensive study of house plans. Wide reading required. One hour class period and six hours laboratory work each week. Six Hours

57, 58. Furniture Construction and Cabinet Making

A study of the processes, tools, machines, and materials used in the woodworking field. Each student works on a project of his own, selected in counsel with the instructor. One hour class work and three or six hours laboratory work each week. Not less than two hours credit in any one semester. Four-Six Hours

41. Descriptive Geometry

Fundamental principles of descriptive geometry. Graphical representation of lines, surfaces, and solids. Six hours laboratory each week. Two Hours

42. Technical Drawing

Orthographic projection, lettering, care and use of instruments; sections and auxiliary views, pictorial presentation, dimensioning; pencil and ink tracings; projection principles. Application to practical problems with emphasis on visualization and analysis. Six hours laboratory work each week.
Prerequisite: 41. Two Hours

51. Wood Lathe

Spindle, face plate, and chuck turning; metal spinning and pattern making. Two Hours

67. Basic Building Design

A course designed for prospective ministers, teachers, doctors, and administrators who will have to make decisions regarding building problems. An attempt is made to help the student understand the meaning of plans and specifications, and to judge the fitness of a proposed building for its purpose. One lecture and three hours laboratory each week. Two Hours

71. SURVEYING*

Theory and practice of plane surveying; measurement of distances; use and adjustment of transit and level; systematic methods for notes and computations; measurement of angles; leveling; contours; land surveying; mapping.
Prerequisites: Mathematics 5 and 8. Three Hours

83. STATICS *

Statics; analytical and graphical solutions; composition and resolution of forces; stresses in simple frames.
Prerequisites: 41, 42; Mathematics 5 and 8. Three Hours

86. STRENGTH OF MATERIALS *

Stress deformation relationships; behavior of materials under stress; theories of failure.
Prerequisite: 83. Three Hours

107. 108. STRUCTURAL DRAFTING *

Structural details, freehand sketching, shades and shadows, working drawings, blueprinting, mechanical perspective. Complete original drawings of quality sufficient to permit use in erection of buildings are required in the second semester. Six hours laboratory each week.
Prerequisites: 41, 42. Four Hours

129. MECHANICAL EQUIPMENT OF BUILDING

A study of mechanical, electrical, and plumbing installations in relation to the building; rules, regulations, and codes.
Prerequisites: 11-12. Three Hours

135. CONTRACTS AND SPECIFICATIONS*

Laws relating to building; contracts; specifications.
Prerequisite: Business 56. Two Hours

147. STRESSES IN FRAMED STRUCTURES

Algebraic and graphical analysis of stresses in framed structures, such as roof and bridge trusses, and building frames.
Prerequisites: 83, 86. Three Hours

171. STRUCTURAL DESIGN IN STEEL AND WOOD

Wood framing; joints and connections; design and computations required for wood trusses, floor systems, beams, girders, and columns. Design of simple steel structures; beams, columns, roof trusses, bents; rivets, tension and compression members.
Prerequisite or simultaneous registration: 147. Three Hours

172. REINFORCED CONCRETE DESIGN

Design of concrete mixtures; forms; working stresses; posts, beams, slabs, T-beams; continuous frames.
Prerequisite: 147. Three Hours

183, 184. ARCHITECTURAL DESIGN*

The appearance of a building in relation to its setting; structural considerations in planning buildings; economic factors; relation of material to design; provision for equipment; churches, schools, hospitals, mission buildings. One hour lecture and six hours laboratory each week.
Prerequisite: 147. Six Hours

CURRICULUM FOR BUILDING CONSTRUCTION MAJOR (B.S.)

FRESHMAN YEAR	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
History of Western Civilization (History 1, 2)	3	3
Freshman English (English 1-2)	3	3
Algebra (Mathematics 5)	3	
Trigonometry (Mathematics 8)		3
Carpentry (Building Construction 11-12)	3	3
General Psychology (Education 5) or Elective	2-3	2-3
Freshman Physical Education	½	½
	16½-17½	16½-17½

SOPHOMORE YEAR		
Religion (51, 52 or 71, 72)	2	2
General Physics (Physics 51-52)	4	4
Descriptive Geometry (41)	2	
Technical Drawing (42)		2
Furniture Construction and Cabinet Making (Building Construction 27, 28)	3	3
Principles of Accounting (5, 6)	3	3
Health Principles (Health 59)		2
Elective	2	
Physical Education	½	½
	16½	17½

JUNIOR YEAR		
Statics (Building Construction 83)	3	
Strength of Materials (Building Construction 86)		3
Structural Drafting (Building Construction 107, 108)	3	3
Business Law (Business Administration 56)		3
Speech	2	2
Principles of Economics (Economics 1-2)	3	3
American History and Institutions (History 91, 92)	3	3
Elective	2	
	16	17

SENIOR YEAR		
Religion	2	2
Literature	2	2
Stresses and Framed Structures (Building Construction 147)	3	
Contracts and Specifications (Building Construction 135)		2
Structural Design in Steel and Wood (Building Construction 171)	3	
Reinforced Concrete Design (Building Construction 172)		3
Architectural Design (Building Construction 183, 184)	3	3
Cost Accounting (Business 145)	2	
Electives	2	4
	17	16

AGRICULTURE

The Agriculture Department at La Sierra College is organized to develop vocational proficiency in those students who emphasize some aspect of American farm life in their education. Majors will also normally be prepared to go into more advanced curriculums as preparation for teaching positions or research in the field. The non-majors who take an occasional course in the department learn something of the social implications of agricultural pursuits and develop a limited acquaintance with the soil. The dignity of labor and the response of Nature to man's efforts as he helps himself are significant lessons for every student in the department.

The 498-acre farm on which the college is located is an ideal situation for the student who would achieve such aims. Crops are being planted every month of the year. Poultry, sheep, and dairy cattle offer splendid opportunity for firsthand experience with livestock. The management of the entire farming program is done by the teaching faculty and has three objectives: to give skill and management experience to students interested in agriculture; to provide opportunity for students to defray a portion of their expenses by employment that is both educational and gainful; to contribute to the financial resources of the college.

Major Requirements for the Bachelor of Science degree: Thirty-eight hours, of which a minimum of 18 must be in the upper biennium; no more than 6 hours of Biology may apply on the 38 hours.

Required courses: Agriculture 7, 11, 55, and 187. Course 186 will be required of all students who have not had at least two years of work experience on a farm as a full-time worker or one year as a worker while a student of agriculture at La Sierra College.

Required cognate courses: General Botany 11, Introductory Chemistry 1-2 or General Chemistry 5-6, Introductory College Algebra 5, Mathematical Preparation for Physical Science 8, and General Zoology 15, 16.

Recommended electives: Biology 58, 121, 136, and 145.

Minor Requirements: Twenty hours, of which a minimum of 5 must be in the upper biennium.

PLANT PRODUCTION AND SOILS COURSES

7. Vegetable Gardening
   Emphasis is placed on present varieties and cultural methods. Two Hours

8. Vegetable Gardening Experience
   A practical continuation of the material studied in 7. Two laboratory periods each week. Prerequisite: 7. Two Hours

11, 12. Field and Forage Crops
   A study of the distribution, cultural methods, and economic importance of the main farm crops. Four Hours

55. Soils

A course dealing with the genesis, physical and chemical properties, and classification of the soil. Prerequisites: Chemistry 1-2 or concurrently with Chemistry 5-6. Three Hours

68. Home Fruit Production

Survey of recommended practices in the growing of grapes, strawberries, and bush and tree fruits for the home. Two Hours

121. Plant Physiology

(See Biology 121.) Three Hours

132. Soil Fertility

The influence of crop rotation, green manure practices, drainage, and commercial fertilization is studied. Emphasis is placed on soil conservation. Prerequisite: 55. Two Hours

136. Entomology

(See Biology 136.) Three Hours

138. Irrigation *

A specialized course for those planning to locate in the Southwest or other arid regions. Water supply, crop requirements, efficient application are emphasized. Two lectures each week with appropriate laboratory experience arranged. Prerequisite: Agriculture 55 and Mathematics 5 and 8. Two Hours

145. Plant Pathology

(See Biology 145.) Three Hours

160. Commercial Fruit Production

A thorough study of modern practices of pruning, pest control, soil management, and marketing from the point of view of one producing fruit as a business. Appropriate laboratory work arranged. Three Hours

LIVESTOCK AND COGNATE COURSES

27. Poultry Husbandry

A general course dealing with the practical phases of the poultry industry. Two Hours

52. Dairy Husbandry *

A general study of the economic aspects, selection, breeding, feeding, and management of dairy cattle. A brief presentation of dairy sanitation is included. Three Hours

62. Poultry Brooding

A laboratory course in which the student has full responsibility for the care of a brood of chicks during the first six weeks of life. Open only to a limited number of students each year. Prerequisite: 27. Two Hours

82. Animal Husbandry

Modern practices in care, use, and marketing of cattle, sheep, horses, mules, etc. are evaluated. Three Hours

106. Poultry Management

Ten lectures dealing with the problems of poultry management. Required laboratory work includes formulating and purchasing poultry feeds, culling, feeding, and keeping accurate records of production costs. Prerequisite: 27. Two Hours

112. ANIMAL NUTRITION

A study of the fundamental needs and practices of animal nutrition. Prerequisite: Chemistry 71. Two Hours

123. SANITARY BACTERIOLOGY

(See Biology 123.) Three Hours

178. DAIRY PLANT OPERATION *

A course of study planned to train the student in the processing of fluid milk, manufacture of butter, ice cream, and other dairy products. Satisfactory completion of the course includes the passing of the State Pasteurizer's Examination. Two lectures and one laboratory each week. Prerequisite: Biology 58. Recommended: Biology 123. Three Hours

GENERAL COURSES

73. FARM MACHINERY *

Selection, operation, and use of common farm implements. Two lectures and one laboratory each week. Three Hours

93. TRUCK AND TRACTOR MECHANICS

The theory and actual experience of maintaining and repairing truck and tractor engines are fully gained by those meeting the requirements of this course. Two lectures and one laboratory each week. Three Hours

171. AGRICULTURE ECONOMICS

A course to train the student in evaluating data, coordinating farm activities with the business world, and applying economic principles to farm operation. Two Hours

187, 188. FARM MANAGEMENT

A lecture, problem, and directed experience course stressing effective farm planning and logical procedures for solving problems in operating a farm. Directed experience in labor relations and distribution, planting, harvesting, marketing, and livestock care is included in the laboratory work. 187 is prerequisite to 188. 18 hours agriculture is prerequisite to 187. Three-Six Hours

UNATTACHED ELECTIVES

15. RADIO I *

An elementary study of radio circuits and the application of vacuum tubes to such circuits. Two hours of theory and three hours laboratory per week. Three Hours

16. RADIO II *

A study of the radio station; receivers, transmitters and antenna systems. Laboratory includes the actual construction and testing of a radio receiver, audio amplifier or similar electronic equipment. Two hours theory and three hours laboratory per week.
Prerequisite: 15 or equivalent. Three Hours

21. PHYSICS OF FLIGHT * (See Physics 21.) Two Hours

26. AERIAL NAVIGATION

Chart reading; the basic wind triangle; special problems of navigation by dead reckoning; use of radio navigation facilities. Two Hours

53. ELEMENTARY PHOTOGRAPHY

A beginning course in photography. One hour theory and three hours laboratory per week. Two Hours

CURRICULUM FOR MAJOR IN AGRICULTURE (B.S.)

FRESHMAN YEAR	First Semester	Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2	2
Freshman English (English 1-2)	3	3
History of Western Civilization (History 1, 2)	3	3
General Botany (Biology 11)	4	
General Psychology (Psychology 5)		3
Field & Forage Crops (Agriculture 11)	3	
Health Principles (Health 59)		2
*Elective Agriculture		2
Physical Education	½	½
	15½	15½
SOPHOMORE YEAR		
Chemistry (Chemistry 5-6 or 1-2)	5-3	5-3
Religion (51, 52 or 71, 72)	2	2
Speech	2	2
Mathematics (Mathematics 5 and 8)	3	3
Soils & Soil Management (Agriculture 55)	3	
Vegetable Gardening (Agriculture 7)	2	
*Elective Agriculture		5
Physical Education	½	½
	17½-15½	17½-15½
JUNIOR YEAR		
General Zoology (Biology 15, 16)	4	4
American History and Institutions (History 91, 92)	3	3
*Elective Agriculture	6	6
Electives	3	3
	16	16
SENIOR YEAR		
Literature	2	2
Religion	2	2
Farm Management (Agriculture 187)	3	
*Elective Agriculture	4	4
Electives	3-5	8
	14-16	16

*In consultation with the head of the department, the student will choose agriculture electives to meet the specific requirements of whichever field he has chosen for major emphasis: agronomy, animal husbandry, general agriculture.

VIII

BUSINESS AND SECRETARIAL SCIENCE

* Ralph L. Koorenny, *Chairman*
Karl F. Ambs — W. E. Anderson
Clarence Laue — Irene E. Ortner
Virginia M. Mabley

BUSINESS ADMINISTRATION

The objective of the Business Administration Department is to prepare students for competent business service in denominational, commercial, and government employment, and to instill a high degree of moral responsibility as an aid to proper relationships with employing organizations, the church, and the community.

Major Requirements: 38 hours, of which 18 must be in the upper biennium. Required Courses: Business 5, 6; 55, 56; 112; 123; 145; 148; Economics 1-2. Majors are also required to complete the following from other subject fields: Speech, 4 hours; Secretarial Science 53; and 3 or equivalent. Six hours upper biennium Secretarial Science may be applied toward this major.

Minor Requirements: 18 hours, of which a minimum of 6 must be in the upper biennium.

1-2. Principles of Economics (See Social Sciences section for description of course.) Six Hours

5, 6. Principles of Accounting
The fundamental principles of modern account keeping. Business transactions and accounting techniques are studied in text material, class discussion, and laboratory practice. Two hours lecture and three hours laboratory each week. Six Hours

55. Intermediate Accounting
Intensive study of accounting records, end-of-period procedures, correction of profits, analysis of accounting statements, accounting implications of corporate organization, with special emphasis on accounting for stocks and surplus. Two hours lecture and three hours laboratory each week. Three Hours

56. Business Law
The general principles of law governing contracts, with special emphasis on negotiable instruments, agency, buying and selling transactions, real estate transactions, and insurance. Three Hours

* On leave, 1956-57.

112. Advanced Accounting

Detailed study of current assets, tangible and intangible fixed assets, investments, liabilities, reserves, and problems in determination of income. New developments in accounting theory and practice.
Three Hours

123. Money, Banking, and Credit

The banking system of the United States and its functions. The monetary system; credit and its functions. The relationship of banking, money, and credit to business.
Prerequisite: Economics 1-2. Three Hours

127-128. Advertising *

The psychology, mechanics, and art of advertising; analysis of current practices in modern media; application of principles to assigned problems in market research and advertising. Four Hours

131, 132. Marketing *

The study of the distributive process from the producer to the consumer. Buying motives, channels of distribution, cost of distribution, and the functional approach to the various middlemen in the distributive process.
Prerequisite: Economics 1-2. Four Hours

141. Current Economic Problems (See Social Sciences section: Economics, for description of course. Three Hours

145. Cost Accounting

Techniques of accounting for materials, labor, and overhead. Interpretation of the elements of cost to management as a basis for controlling manufacturing activities and measuring achievement.
Prerequisite: 5, 6 or 55. Two Hours

148. Accounting Systems

The study of various accounting systems; methods of organizing accounting operations; includes a study of the organization of denominational finance and administration. Two Hours

172. Business Finance

Financial problems of business organization; launching of an enterprise; sources of capital; principles of borrowing; relation of finance to the business cycle; distribution of earnings; reorganization.
Prerequisite: 5, 6. Three Hours

188. Elements of Statistics *

An introduction to the study of the various statistical methods and techniques of gathering, analyzing, and interpreting data, with applications in the fields of business and education. Three Hours

CURRICULUM FOR MAJOR IN BUSINESS ADMINISTRATION (B.S.)

FRESHMAN YEAR

	First Semester	Second Semester
Principles of Accounting (Business Administration 5, 6)	3	3
Life and Teachings of Jesus (Religion 1, 2)	2	2
Freshman English (English 1-2)	3	3
History of Western Civilization (History 1, 2)	3	3
Typewriting (Typewriting 3 or 9)		1-2
General Education Basic Science (Science 63, 64)	4	4
Freshman Physical Education (Physical Education 7, 8)	½	½
	15½	17½ - 16½

SOPHOMORE YEAR

Principles of Economics (Economics 1-2)	3	3
Intermediate Accounting (Business Administration 55)	3	
Business Law (Business Administration 56)		3
Speech	2	2
Religion (51, 52 or 71, 72)	2	2
American History and Institutions (History 91, 92)	3	3
Business Machines (Secretarial Science 53)	1	
Health Principles (Health 59)	2	
Electives		3
Physical Education	½	½
	16½	16½

JUNIOR YEAR

Cost Accounting (Business Administration 145)	2	
Accounting Systems (Business Administration 148)		2
Advanced Accounting (Business Administration 112)		3
Religion	2	2
Applied Arts	2	2
Upper division Major and Minor Electives	10	7
	16	16

SENIOR YEAR

Literature	2	2
Money, Banking, and Credit (Business 123)		3
Upper division Major and Minor Electives	14	11
	16	16

SECRETARIAL SCIENCE

The four-year degree program in Secretarial Science is designed to prepare the student for professional secretarial work in denominational or commercial offices and to combine the broad cultural background of a college education with thorough training in basic skills.

Major Requirements: 34 hours, of which a minimum of 15 must be in the upper biennium. Required courses: Secretarial Science 54; 57; 63, 64; 14; 53; 70; 73. A maximum of 4 hours in Business or Economics may be included in the total upper biennium hours. Cognate requirement: Economics 1-2.

Minor Requirements: 18 hours, of which a minimum of 5 must be in the upper biennium. Required: Secretarial Science 63 and 70.

A two-year program is suggested for those who may not wish to qualify for a degree. Adequate preparation in basic skills is provided to prepare the student for stenographic or clerical office positions. (See page 116 for an outline of the Curriculum.)

TYPEWRITING

3. Beginning Typewriting
The techniques of touch typewriting as applied to business and personal use. Meets five days a week. Offered both semesters.
Two Hours

9. Typewriting Review
A review of basic techniques and applications for either business or personal use. For students with previous training whose speed on a 10-minute test is 30-40 wpm. Meets three days a week. Offered both semesters. Credit is not allowed for both 3 and 9. One Hour

57. Advanced Typewriting
Emphasis on increased speed, accuracy, and skill in the typing of letters and business projects. Meets five days a week. Offered both semesters. Prerequisite: 3 or 9 or 45 wpm. Two Hours

SHORTHAND

7. Beginning Shorthand
Theory of Gregg Shorthand Simplified; simple dictation of familiar material. Four Hours

8. Shorthand Dictation
Speed-building dictation of new material; elementary transcription on the typewriter.
Prerequisite: 3 or 9 and 7 or equivalent. Four Hours

11, 12. Shorthand Review
A review of Gregg Shorthand for students whose previous training does not qualify them for 63, 64 Dictation and Transcription. Credit is not allowed for both 7 and 8 and 11, 12. Four Hours

63, 64. Dictation and Transcription
Further development of shorthand speed plus intensive training in fast and accurate transcription of mailable letters. The second semester includes work in denominational vocabulary. Class meets three times a week for a double period. (First semester is prerequisite to the second semester.)
Prerequisite: 8 or equivalent. Eight Hours

108. ADVANCED SHORTHAND

Dictation and transcription of Congressional and denominational material at the higher speeds.
Prerequisite: 63. Three Hours

170. MEDICAL STENOGRAPHY

Shorthand and machine dictation and transcription of material selected from medical case histories, letters, and hospital records.
Prerequisite: 63. Two-Three Hours

OFFICE PRACTICE

14. SECRETARIAL ACCOUNTING

Instruction in accounting fundamentals adapted to the needs of future secretaries and stenographers. Will not apply on a Business major or minor. Offered both semesters. Three Hours

53. BUSINESS MACHINES

Supervised practice on various types of calculating, adding, and duplicating machines. Offered both semesters.
Prerequisite: 3 or 9 or equivalent. One Hour

54. INDEXING AND FILING

A study of the basic rules for alphabetic arrangement of names; practice in card and correspondence filing and finding. Offered both semesters.
Prerequisite: 3 or 9 or equivalent. One Hour

70. OFFICE PRACTICE

Preparation for the activities and procedures common to most stenographic jobs and a study of the human relationships involved. Two class periods and a laboratory each week. Prerequisite: 57. (May be taken concurrently.) Three Hours

73. MACHINE TRANSCRIPTION

Instruction and practice in the use of the Dictaphone, with emphasis on fast and accurate transcribing from the secretarial unit.
Prerequisite: 3 or 9 or equivalent. One Hour

161. BUSINESS COMMUNICATIONS

The composition and dictation of business letters and reports.
Three Hours

164. OFFICE MANAGEMENT *

The planning and organizing of business and secretarial offices. Special attention is given to the training of office employees, the selecting of equipment, the planning of office space, and organizing the flow of work through the office. Three Hours

174. THE PROFESSIONAL SECRETARY *

A consideration of the duties, attitudes, responsibilities, and personal qualifications which characterize the fully trained professional secretary. Prerequisite: 70. Two Hours

CURRICULUM FOR MAJOR IN SECRETARIAL SCIENCE (B.S.)

FRESHMAN YEAR	First Semester		Second Semester
Life and Teachings of Jesus (Religion 1, 2)	2		2
History of Western Civilization (History 1, 2)	3		3
Freshman English (English 1-2)	3		3
Speech	2	or	2
Secretarial Accounting (Secretarial Science 14)	3	or	3
*Beginning Shorthand (Secretarial Science 7)	4		
*Shorthand Dictation (Secretarial Science 8)			4
*Typewriting I (Secretarial Science 3 or 9)	2	or	1
Freshman Physical Education (Physical Education 7, 8)	½		½
	16½		16½

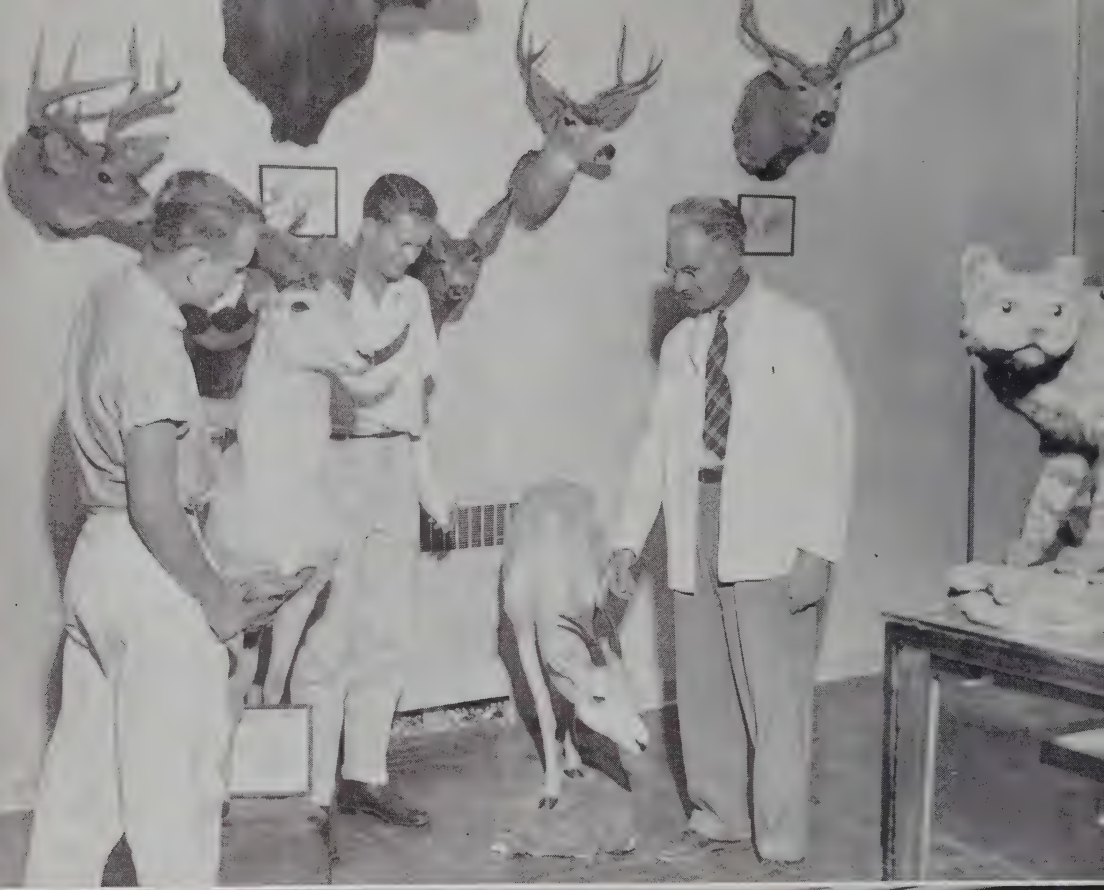
*Students having the equivalent of all or part of these may substitute second-year shorthand and typewriting or electives.

SOPHOMORE YEAR		
Religion (51, 52 or 71, 72)	2	2
Principles of Economics (Economics 1-2)	3	3
General Education Basic Science (Science 63, 64)	4	4
Health Principles (Health 59)		2
Indexing and Filing (Secretarial Science 54)		1
Business Machines (Secretarial Science 53)	1	
*Dictation and Transcription (Secretarial Science 63, 64)	4	4
*Typewriting (Secretarial Science 57)	2	
Physical Education	½	½
	16½	16½

*Students taking these in the freshman year substitute American History and Institutions (6 hours) and electives (4 hours).

JUNIOR YEAR		
American History and Institutions (History 91, 92)	3	3
Upper Division Electives on Major	7	4
Office Practice (Secretarial Science 70)		3
Machine Transcription (Secretarial Science 73)	1	
Literature	2	2
Electives	3	3
	16	15

SENIOR YEAR		
Upper Division Electives on Major	3	3
Religion	2	2
Literature or Speech	2	
Electives	9	11
	16	16



SPECIAL CURRICULUMS

THEOLOGY

La Sierra College Theology training program is designed to prepare preachers and teachers for a professional career in the highest sphere of human experience and thought in the realm of religion. The purpose of this training requires that a careful selection of candidates for admittance be made not only on the basis of preparatory scholastic accomplishments, but also on the basis of spiritual qualities, social sympathies, cultural refinement, and aptitude for the ministry

Candidates for the ministry are eligible for ministerial internship after the completion of 128 college hours leading to a Bachelor of Arts degree with a major in theology, and a fifth year at the Theological Seminary. The fifth year will be a full year of four quarters of work required by the Seminary for the degree of Master of Arts in Religion.

The fifth year will be of graduate level, with at least one-third of the load practice in evangelism or church work, or training courses in which theory and practice are blended, the degree of Master of Arts in Religion to be conferred at the end of this year.

No student will be graduated with a recommendation to the ministry or to graduate work merely on the basis of the accumulation of the required number of credit hours.

Specific Requirements:

	Semester Hours
Religion Courses	
Life and Teachings of Jesus	4
Bible Doctrines	4
Daniel and Revelation (U. D.)	5
New Testament Epistles	6
Gift of Prophecy	3
Homiletics	6
Old Testament Prophets	6
Philosophy of Religion	4
Evangelism	4
Cognate Courses	
History of the Christian Church	6
Speech	6
Applied Health Principles	2
Greek 7-8, 65-66	14
Recommended Electives	
Religion (Courses 101, 132, 134, 118)	10
Greek or Hebrew	
History (Courses 103, 104)	4
Accounting	2
Education (Course 107)	2
Science (Course 183)	3
Typewriting	2

PREMEDICAL

La Sierra College offers students opportunity to prepare themselves for admission to medical colleges.

In planning their college courses, premedical students should include their courses required by the admissions committee of the medical college to which they plan to apply. Careful attention should be paid to prerequisites and to the proper sequence of courses. Guidance in these matters should be sought from the members of the staff. A college degree is necessary for admission to most medical schools. With this in mind, students should decide on a major concentration, preferably by the beginning of the second year, and should include the liberal arts requirements in their courses.

For recommendation to the School of Medicine at the College of Medical Evangelists, a student should:

a. Maintain a satisfactory conduct and character rating.

b. Reach a minimum scholarship average of 1.5 in both science and non-science courses.

c. Take the medical aptitude test during the 12 months preceding his application.

d. Receive credit for the college work required by the College of Medical Evangelists for admission. This work is as follows:

	Semester Hours
Chemistry	16
Physics	8
Biology	8
Embryology	3
Genetics (recommended)	3
Freshman English	6
French, German, or Spanish*	6-12
American History and Institutions**	6
Religion	12

*When the language taken in college is the same in which the student earned two units on the secondary (high school or academy) level, the minimum requirement on the college level is 6 hours. If a new modern language is begun on the college level, the minimum requirement is 12 hours. If no foreign language was taken on the secondary level, the total college-level requirement is 14 hours. Students taking two years of Latin in high school must begin one of the above modern languages on the college level and complete 12 semester hours in the same language.

**This course is so organized that it fulfills the California state requirement for California history and constitution.

PREPHARMACY

The college work specified as entrance requirements to schools of pharmacy varies a great deal from university to university; some two years, and others one year. The prospective pharmacy student can get all of the prepharmacy requirements at La Sierra College, where he will be specifically advised as to a study list as soon as he has decided on the particular school of pharmacy for which he would like to prepare.

PRE-DENTAL HYGIENE

The two-year curriculum as outlined below has been carefully checked to make sure that it meets the requirements for entrance to the Dental Hygiene degree course as offered generally by schools of dentistry.

FIRST YEAR

	First Semester	Second Semester
Religion (1, 2; or 51, 52; or 71, 72)	2	2
Freshman English	3	3
Psychology	3	
Sociology		3
Microbiology		4
Typewriting	2	
Secretarial Accounting	3	
Introductory Chemistry (1-2)	3	3
Physical Education	½	½
	16½	15½

SECOND YEAR

American History and Institutions	3	3
General Education Basic Science (63)	4	
Speech	2	2
Elementary Organic Chemistry	4	
Qualitative Analysis		3
Zoology 15		4
Nutrition (99)		2
Psychology 101	2	
Elective		2
Physical Education	½	½
	15½	16½

(Some schools of dentistry prescribe for entrance to this curriculum language in either high school or college. Some dental hygiene outlines do not require language; consult the registration adviser.)

PRENURSING

Below are the usual college freshman requirements for prenursing. In some schools of nursing, psychology and sociology are recommended as substitutes for the courses which are starred. Registrant will be advised according to the requirements of the particular school of nursing where entrance is planned for.

	First Semester	Second Semester
Religion	2	2
Introductory Chemistry	3	3
Freshman English	3	3
Anatomy and Physiology	4	2
*History of Nursing	2	
Microbiology		4
*Health Principles		2
Physical Education	½	½
Electives	2	
	16½	16½

PREDENTAL

In planning their college courses, predental students should include those courses required by the dental school to which they plan to apply. Careful attention should be paid to prerequisites and to the proper sequence of courses. Guidance in these matters should be sought from the members of the staff.

Outlined below is a three-year predental sequence as recommended by La Sierra College. All of the courses listed apply on the Bachelor of Arts degree, which many students will choose to complete by an extra year of enrolment, as it is generally recognized that a man's professional life is sooner or later definitely enhanced by his having the bachelor's degree. Those courses marked with an asterisk (*) are prescribed by the Council on Dental Education of the American Dental Association to be included in the two full years (60 to 64 semester hours) of college work which that council has established as the minimum credits for entrance to accredited schools of dentistry, requirements that may be completed in two years.

FIRST YEAR

	First Semester	Second Semester
Life and Teachings of Jesus	2	2
*Freshman English	3	3
Introductory College Algebra	3	
Mathematical Preparation for Physical Science (Course 8)		3
*General Chemistry	5	5
History of Western Civilization	3	3
Physical Education	½	½
	16½	16½

SECOND YEAR

Prophetic Interpretation (or other religion)	2	2
*General Physics	4	4
Psychology and Sociology or	(3)	(3)
Beginning Language	3	3
(Beginning language is not taken by those who have, as college entrance credits, two units of the chosen language. If the student intends to do advanced work toward research or scientific specialization, he should choose German as the language; if he intends to practice in an area where some other modern language has vocational utility, he may choose accordingly. Some schools of dentistry do not require language in college.)		
*Zoology	4	4
(Four hours of botany may be substituted for the second semester of zoology.)		
Quantitative Analysis	4	
Speech (or Literature)		2
Sculpture		2
Physical Education	½	½
	17½	17½

THIRD YEAR

*Organic Chemistry	4-5	4-5
Comparative Embryology	3	
Comparative Anatomy (Course 124)		4
American History and Institutions	3	3
(Satisfies California state requirement. This course or one in California history and constitution is, by state law, required by dental colleges in California.)		
Intermediate Language	3	3
Western World Literature (or Speech)	2	2
	15-16	16-17

*Prescribed by the Council on Dental Education of the American Dental Association, and to be included among the minimum total.

For recommendation to the School of Dentistry at the College of Medical Evangelists, a student should:

a. Maintain a satisfactory conduct and character rating.

b. Reach a minimum scholarship average of 1.5 in both science and non-science courses.

c. Make satisfactory grade in the Dental Aptitude Test.

d. Complete satisfactorily at least the minimum entrance requirements (marked with an asterisk above) and California requirements in constitution and government.

PREPHYSICAL THERAPY

College work totaling 64 hours is required as preparation for Physical Therapy. The required courses are listed below in the approximate order in which they should be taken

	Semester Hours
Religion**	8
Freshman English	6
General Zoology	8
General Chemistry	10
Microbiology	4
General Psychology	3
Physical Education	1
General Physics	8
Quantitative Analysis	4
Mammalian Anatomy	2
American History and Institutions†*	6
Electives	4

**Two hours of religion for every semester of attendance.

†This course is so organized that it fulfills the California state requirement for California history and constitution.

*This requirement can be met by waiver examination or by taking American History and Institutions (History 91, 92), or National, State, and Local Government (Political Science 57, 58).

Electives are to be chosen in counsel with adviser. Suggested by the School of Physical Therapy at the College of Medical Evangelists are such courses as physics, organic chemistry, biochemistry, embryology, educational psychology, human anatomy, and public speaking.

PRE-X-RAY TECHNIQUE

One year of college work with a total of 32 semester hours is required as preparation for X-ray technique

The course of study must include college physics. It is also recommended that courses in chemistry, anatomy, and physiology be taken.

DIETETICS

An applicant for membership in the American Dietetic Association shall have completed 60 semester hours of college work from the four groups listed below, with not less than the minimum number of hours indicated for each group. All applicants shall have both courses listed in Group I (i.e., Basic Foods and Nutrition and Dietetics) which has a prerequisite of three courses from Group II).

	Semester Hours
Group I	8-10
Basic Foods	
Nutrition and Dietetics (prerequisite: 3 courses from Group II)	
Group II	20-25
Inorganic Chemistry	
Organic Chemistry	
Human Physiology	
Bacteriology	
Physiological or Biological Chemistry	
Food Chemistry	
Physics	
Advanced Human Nutrition	
Group III	12-20
Psychology	
Education	
Sociology	
Economics	
Personnel Relations	
Group IV	15-25
Experimental Foods	
Diet Therapy	
Quantity Cookery	
Institution Equipment	
Purchasing	
Organization and Management	
Accounting	
Cost Control	

(See the Foods and Nutrition curriculum in the Home Economics section of the Bulletin.)

PREMEDICAL TECHNOLOGY

College work totaling 96 semester hours is required as preparation for medical technology. The required courses are listed below in the approximate order in which they should be taken.

	Semester Hours
Religion*	12
Freshman English	6
Mathematics	6
General Chemistry	10
General Zoology	8
Physical Education	1
Language	6
General Physics	8
Quantitative Analysis	4
Microbiology	4
Mammalian Anatomy	2
Organic Chemistry	8
Physiology	3
American History and Institutions**	6
Biochemistry	4
Electives	8

*Two hours of religion for every semester of attendance.

**This course is so organized that it fulfills the California state requirement for California history and constitution.

PRESOCIAL WORK

The profession of social work requires graduate training which includes both classroom courses and field work in a social agency. In preparation for this a broad foundation in the social sciences with an undergraduate orientation in social work will not only prepare the student for graduate school, but will also make him eligible for some positions in social work agencies, particularly in the field of public welfare, which do not require advanced training. The various careers which are open in social work include child welfare agencies, public institutions for the defective and delinquent, medical and psychiatric social work in hospitals and clinics, parole, probation, and numerous other fields private as well as public.

A major in Social Science to include the following courses is recommended for those planning to enter the field of social work.

Economics 1-2 (in lieu of Geography 52)	6 hours
Religion 122	2 hours
Health 113 (may be used in lieu of Health 59)	2 hours
Sociology 124. Introduction to Social Welfare	4 hours
Courses in biology, physiology, or zoology to fulfill the science requirement.	

Students should consult with the adviser in the social science department for selection and arrangement of cognate courses.

PRELAW

The legal profession is one of the most important and rewarding callings of modern life. Law schools are almost unanimous in requiring as entrance credits thorough liberal arts education (three years or a degree), with adequate courses in history, economics, sociology, political science, English, speech. Some require accounting. The Bachelor of Arts curriculum at La Sierra College meets the requirements. Specific advice will be given to any student as soon as he has selected the law school where he expects to enroll.

TWO-YEAR STENOGRAPHIC

	Semester Hours
Religion	6
Freshman English	6
American History and Institutions	6
Speech	2
Physical Education	2
Secretarial Accounting	3
Typewriting	4
Shorthand (optional)	16
Office Practice	3
Business Machines	1
Indexing and Filing	1
Machine Transcription	1
Electives	13
	64

ENGINEERING

People trained in the various specializations into which engineering science is divided are currently in great demand and the demand is likely to continue. La Sierra has arranged a cooperative plan whereby the first three years of the chosen curriculum will be on the La Sierra campus; the final two years will be on the campus of a co-operating university in the area. On successful completion of the three-and-two pattern, the student will receive two degrees — a liberal arts degree from La Sierra College and an engineering degree from the co-operating university.

The three years at La Sierra should be patterned approximately as outlined here. At least three hours of Principles of Economics are required in all courses; this may be taken in summer school or compensated for by summer school credit. Four hours of literature and three hours of basic sociology are likewise required; these may also be taken in summer school or be included in the third year at the school of engineering.

FIRST YEAR	First Semester	Second Semester
Religion (1, 2)	2	2
Freshman English (1-2)	3	3
General Chemistry (5-6)	5	5
Introductory Algebra (5)	3	
Trigonometry and Analytical Geometry (8)		3
History of Western Civilization (1, 2)	3	3
Physical Education (7, 8)	½	½
	16½	16½

If the student does not have two units of college entrance credits in a modern language, beginning language (German recommended) may be taken during the first year or in summer school and the student's program adjusted accordingly. Some schools of engineering do not require a foreign language.

SECOND YEAR		
American History and Institutions (91, 92) (or intermediate language)	3	3
Summer school should compensate for the course not taken, although see the note above as to language.		
General Physics (51, 52)	4	4
Physics Problems (53, 54) (to accompany 51, 52)	1	1
Calculus I and II (77, 78)	4	4
Descriptive Geometry and Technical Drawing (41, 42)	2	2
Fundamentals of Speech (5, 6)	2	2
Health Principles (59)	2	
	18	16

THIRD YEAR		
Religion (151, 152)	2	2
Introduction to Fine Arts (57, 58)	2	2
General Psychology		3
Statics (83)	3	
Calculus III (111) or Differential Equations (114)	3 or	3
Electives	6-9	6-9
	16	16

Electives will be chosen, in consultation with the engineering adviser, to meet needs in the area selected for specialization as indicated below:

FOR CIVIL ENGINEERING		
Surveying	3 or	3
FOR CHEMICAL ENGINEERING		
Physical Chemistry (155, 156)	4	4
Quantitative Analysis (51)	4	
Organic Chemistry (113, 114)	4	4

Note: Engineering Stoichiometry (3 hours), required by university in second year, may be taken there in place of Basic Physics III, which will be completed at LSC.

FOR ELECTRICAL ENGINEERING		
Electricity and Magnetism (108)		4
FOR INDUSTRIAL ENGINEERING		
Principles of Accounting (5, 6)	3	3
Business Law (56)		3

FINANCIAL INFORMATION

All charges, with the exception of board, are applicable throughout the school year. No refunds are granted during vacation periods. However, if a student leaves the campus for more than one week at a time he will not be charged the full amount of the minimum board.

SCHEDULE OF RATES AND CHARGES

At the time of registration all students are required to pay the cashier their guarantee deposit before beginning registration.

The guarantee deposit is $100.00 for resident (boarding) students and $60.00 for non-boarding, or day, students. Students living in the college-owned residences will be required to pay one month's rent in advance. These deposits will be held in trust until the last month of the school year, or until the student leaves the college. Students registering after the regular registration will be required to pay a fee of $5.00. (See page 28.)

Each student who enrolls in one or more chemistry courses is required, in addition to the above, to purchase, at the time of enrollment, one breakage ticket, the price of which is $10.00; $5.00 breakage tickets are required in biology courses using breakable equipment. Should the ticket be consumed before the end of the course, a new one is to be purchased. The unused portion of a ticket is credited back to the student's account at the end of the course. The breakage ticket is drawn upon to pay for equipment which the student damages or destroys in his work.

Each student planning to live in a residence hall at the college must pay a $10 room deposit. This deposit will be held in reserve until two weeks after the student has checked out of the hall. If for any cause the student should be unable to attend school, the request for refund must be received not later than one month before the opening of school.

TUITION

All laboratory fees, all rentals (typewriter, piano, and organ), are included in the tuition.

Schedule of tuition charges per semester:

Credit Hours	*Tuition*	*Credit Hours*	*Tuition*
1	$ 22.13	8	177.00
2	44.25	9	199.13
3	66.38	10	221.25
4	88.50	11	243.38
5	110.63	12-16	265.50
6	132.75	17	287.63
7	154.88	18	309.75

The above tuition charges are payable in four semestral installments as follows: First semester, October 31, November 30, December 31, and January 31; second semester, February 28, March 31, April 30, and May 31. Tuition for summer school is charged in June for the first session and in July for the second session. Statements are prepared each calendar month and are payable when presented.

Students living in the village or surrounding communities pay tuition on the same basis as dormitory students.

ROOM RENT

Gladwyn Hall and Mu Beta Kappa	$21.50 per month
Angwin Hall and Calkins Hall	22.50 per month
Special annex rooms in Angwin Hall and Calkins Hall	23.50 per month

The above charges are on the basis of two students in a room and include free laundry up to $2.50 per month. Anything above $2.50 will be charged extra. No refund will be made if a student does not avail himself of the laundry services. All the rooms in the residence halls are equipped with twin beds, twin closets, and hot and cold running water. The corner rooms in Angwin Hall and in Angwin and Calkins annexes are equipped with full bathroom facilities.

If a student wishes to room alone, he may be permitted to do so, as long as rooms are available, at an extra charge of $5.00 a month.

Each student is furnished a key for which he signs when he occupies the room. No key deposit is charged. Unless the room key is returned to the dean and the room left in good order a charge as stated in "Among the Palms" will be made against the student and deducted from the room deposit.

Students may have a maximum of 200 watts of electricity in their rooms; any excess wattage will be charged extra.

The Health Service fee which is included in the tuition applies toward the expenses of maintaining a nursing staff at the college. It does not include doctor's fees, special prescriptions, prolonged nursing care, or physical therapy treatments.

If a student finds it necessary to receive hospitalization in the infirmary, a charge of $1.00 per day for its use will be made.

PRIVATE MUSIC AND SPEECH LESSONS

The fee for private lessons (half hour) is $37.50 per semester for one lesson a week; $57.50 per semester for two lessons a week. Single lessons are $3.00 each. No refunds are made for occasional absence, whether caused by sickness or other reasons. Lessons falling on holidays, field days, or vacations are not made up. Lessons missed through the fault of the instructor will be made up. When the lessons taken in a semester number less than 8, they will be charged for at the single lesson rate of $3.00. In addition to the private lesson fee there is a regular tuition charge for the amount of credit earned.

FEES

APPLICATION FEE:

A fee of $2.00 is required with the application from every new student. Students who have previously registered in the college or academy and have been continuous in attendance will not be required to pay the application fee. This fee is to pay for the checking of transcripts and recommendations.

MEDICAL EXAMINATIONS:

All students are required to have completed physical examination blanks on file at the college when they come to register. No one will be allowed to begin registration until the medical blank has been approved.

SEMESTER FEES:

General Fee (per semester)	$22.50
ASB Fees (per semester)	$5.50

The Associated Student Body fee is charged to students carrying four or more semester hours. The fee includes ASB membership and one half of the subscription price to the student publications. Refunds are made only if the student discontinues all classes within two weeks of registration.

SPECIAL FEES:

General Fee	$ 15.00
Special examination	$ 3.00
Late class change (after first two weeks)	1.00
OA English Special Fee	20.00
Speed Reading	20.00
Degree	5.00
Diploma — Professional	5.00
Late registration	5.00
Medical Aptitude Test	10.00
Reregistration Fee	3.00
Biology Field Course (transportation)	5.00
Physical Education Skiing (transportation)	10.00
Physical Education Golf (transportation)	3.00

Students taking music or typing *only* would pay the following rentals:

	Per Month
Typewriter, one period per day	$ 1.50
Music Instruments	1.50
Music Rentals	**Per Semester**
Practice Room, one hour a day	$ 5.00
Practice Room, two hours a day	8.00
Pipe Organ, Estey, two hours a week	14.00
Pipe Organ, Wurlitzer, three hours a week	14.00
	Per Hour

Single practice periods are charged as follows:

Estey Organ	$ .50
Wurlitzer Organ	.35

COLLEGE STORE

Books, school supplies, and stationery may be secured at the College Store. All purchases are on a cash basis.

MISCELLANEOUS FINANCIAL INFORMATION

No student is allowed to draw cash on his account unless the business office has a written authorization from the person responsible for the account. All checks paying school expenses should be made out to the college. All checks for personal cash are to be made out to the students, not the college. Please do not combine money to be given to students with the check which pays the school bill. Purchase of books are personal items that the student buys for cash, and they are not considered as part of the school bill.

Withdrawals on credit balances will be permitted after the statements have been received by the student, which is usually the 6th of the month.

Tuition charges are based upon the number of hours of college credit in the course for which the student has registered, as shown by the records in the office of the registrar and business office. The same tuition is charged whether the course is taken for credit or audit.

Vouchers must be obtained from the registrar, properly signed and returned to the registrar, for class changes, including courses dropped for which tuition rebates are desired. Such rebates will be effective at the end of the week in which the voucher, properly signed, is filed with the registrar. Rebates are not retroactive. Students who wish to discontinue school during a semeser must file with the registrar a drop voucher covering all classes being dropped, in order to merit an honorable dismissal on the transcript of record.

Rebates on residence hall expenses will be made only when the room is vacated and the key turned in to the dormitory dean.

Diplomas, transcripts of credits, and semester grades will not be issued until accounts with the college are fully paid.

One complete transcript of credits will be made upon request, free of charge. A fee of one dollar will be charged for each additional transcript.

Students transferring from other schools are asked to present statements to show that accounts with other schools have been paid or satisfactorily settled.

The college reserves the right to withhold payment of any balance payable to a student for a period of two weeks after he leaves school in order to be certain that all charges and credits have been recorded on his account.

BOARD

Board is furnished on the cafeteria plan. The meals are served in a beautiful up-to-date dining room, which is equipped with the latest hygienic equipment obtainable.

The minimum charge for dormitory students per month for men is $23.00; for women, $18.00.

STUDENT BILLS

Money for the payment of accounts should be sent directly to the business office of the college and should be made payable to La Sierra College. Bills are payable ten days from the close of the month.

REFUNDS

The guarantee deposit will be refunded or credited to the account at the end of the school year, or whenever the student withdraws.

THE STUDENT BANK

Provision is made for students to deposit in the Student Bank in the business office of the college such money as they may wish to have on hand for books, school supplies, and personal expenses. This money the student may withdraw at any time without question, or as parent or guardian may designate, by signing the passbook.

LABOR FOR STUDENTS

Students who desire to work any considerable portion of their school expenses should, if possible, arrange for their labor assignments before making up their class programs. Those working twenty-one to thirty hours per week are permitted to carry twelve to fourteen semester hours of school work; those working thirty-one to forty hours are permitted to take ten semester hours. Only students taking the minimum of eight semester hours may work forty hours per week

It is especially stipulated that labor given to students is not paid for in cash, but all earnings are to be credited to the account of the student for tuition, fees, and resident expenses. Labor credits cannot be transferred to any person without written permission of the person having the credit. Students accepting employment in any department agree to the provisions as stated above.

SCHOLARSHIPS AND AIDS

MILITARY VETERANS

Veterans wishing information as to the benefits to which they are entitled and the procedure for obtaining these benefits may apply to the nearest office of the Veterans Administration. Veterans who were citizens of California at the time of induction may obtain additional aid from the California Veterans Welfare Board. Application forms may be obtained from the board office in Sacramento.

La Sierra College has been authorized to admit veterans of the Korean War under the Vocational Rehabilitation Program, Public Law 550, 82nd Congress, 1952.

Veterans wishing to attend school under the provisions of *Public Law* 550, should secure "Certificates for Education and Training" (Form 7-1993) from the Veterans Administration to sub-

mit at time of registration. Veterans under *Public Law* 550 must pay the regular guarantee deposit at the time of registration and all expenses incurred thereafter because the Veterans Administration sends the benefits to the veterans and not directly to the school.

Veterans planning for training under the State of California Educational Institute plan should evidence their intention by presenting an "Authorization Certificate" from the State of California.

Veterans who cannot furnish a certificate when registering must pay the regular guarantee deposit. Veterans will do well to plan to have sufficient funds to cover at least two months' living expenses when applying for veterans benefits. Personal accounts for board, room, and laundry must be paid each month as presented. The college cannot carry personal accounts in anticipation of government subsidies.

COLPORTEURS

Students who wish to sell Seventh-day Adventist literature will be awarded special scholarships which will be arranged between the publishers, the conferences, and the college.

ENROLLMENT ANALYSIS, 1955-1956

Regular Semesters	*Men*	*Women*	*Total*
Freshmen	201	178	379
Sophomores	116	62	178
Juniors	114	47	161
Seniors	82	38	120
Postgraduates	20	14	34
Special	8	21	29
Extension	1	20	21
			922

Summer Session, 1955	*Men*	*Women*	*Total*
Freshmen	12	14	26
Sophomores	13	14	27
Juniors	23	29	52
Seniors	35	16	51
Postgraduates	21	11	32
Special	12	39	51
			239

GRADUATES OF 1955

BACHELOR OF ARTS

Carlos Jack Bainer
Paul Robinson Bradshaw
George Bruce Campbell
Glen J. Chinn
Edgar Mortimer Cleveland
Wesley Samuel Crooks
Ronald Lynn Cummings
Charles Cyr
Lindy Max Dicken
Edward William Dirksen
Alderman Forbest Dixon
Donald Deane Doty
Richard Owen Forrester
Robert Eugene Froeschle
Robert Alfred Harvey
Paul Ronald Hawks
Richard Andreas Jensen
Theodore Reldon Johnstone
William Raymond Kimball
Dorothy Allison Kosky
Geraldine Dodge Kuhn
Arthur George Lawrence
Varner Johns Leggitt
Albert Kenneth Martin, Jr.
Barclay Everett Martin
Paul Eldred Morris
Bernard Lee Mracek
Stanley Jay Mulder
Calvin Rolland Nash
Lois Beverly Neil
George Simington Newell, Jr.
Constance Evelyn Oakes
Karen Ruth Olsen
Earl Leonard Parker, Jr.
Stanton Howard Parker
Warren Earl Parmelee
Marion Louise Pasard
Richard Douglas Pfeiffer
Gerald Gene Porter
Margaret Allene Pruitt
Evert Stanley Ray
R. Alger Reynolds
Jaqueline Judith Rose
William Sherwood Seibly
Henry Leroy Smith
Ronald Antoine Smith
Arthur E. Sutton
Ehozo Tabuchi
Carlene Rae Detsch-Taylor
Margaret Joan von Hake
Marvin Robert Wilcox
Aaron Robinson Wright
Jerry David Wu

BACHELOR OF SCIENCE

Priscilla Harriet Baker
Noreen Kennison Damazo
Quilvie Galethia Green
Lorraine Hebard Habekost
Amy Nutsuko Hadano
Gordon Llowellyn Henley
Lloyd Norman Johnson
George Rorgers Kendall
Virginia Maude Lowe
Jordan Raymond Luxton
Viola Jessie McGowan
Illene Genene Miller
Lynne Irving Morton
Annie Laurie Parchment
Bessie Lucille Rhodes
June Loupe Simms
Doris A. Dewey Starkey
Carolyn May Stuyvesant
Melford Theodore Thompson
Wilma Wood Vigil
Ileen C. D. Wells
Hattie Rosemary Witt

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MT. SAN JACINTO
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ARIZONA
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